

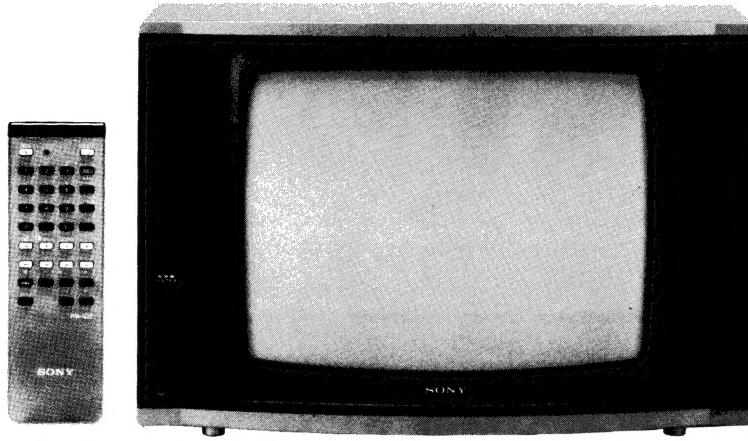
KV-2764EC

RM-635

SERVICE MANUAL

Belgium Model

Chassis No. SCC-660G-A



September, 1985

RX CHASSIS

SPECIFICATIONS

Television system	CCIR TV standards (system B,G and H)	RM-635
Colour system	PAL	Remote control system
Zweiton system	Two carrier system	Infrared control
Channel coverage	VHF channels E2-S20	Power requirements 3 V dc
	UHF channels E21-E68	2 batteries IEC designation R03 (size AAA)
Programming system	30 programmes	Dimensions Approx. 54 x 16 x 165 mm (w/h/d)
	Automatic programming digital tuning	Weight Approx. 100 g
Picture tube	Approx. 68 cm (27 inches), approx. 64 cm screen measured diagonally	incl. batteries
	114-degree deflection Trinitron system	Accessories supplied IEC designation R03 battery (2)
Aerial	75-ohm standard aerial socket (DIN 45325/IEC 169-2)	Design and specifications are subject to change without notice.
Audio output	10 W + 10 W (music power)	
Input/output	21-pin connector	
	in accordance with the requirements of CENELEC standard	
Outputs	Audio output connector (5-pin DIN)	
	Recording output: 1 mV rms/kilohm	
	Line output: variable, 0-2 V rms (max.)	
	impedance less than 1 kilohm	
	External speaker terminals (2-pin DIN)	
	For 8 to 16 ohm speakers	
	Headphones jack (stereo phone jack)	
Power requirements	220-240 V ac, 50 Hz	
Power consumption	150 W	
Dimensions	Approx. 800 x 543 x 475 mm (w/h/d)	
Weight	Approx. 52kg	
Accessory supplied	Remote Commander RM-635	
Optional accessory	OPK-202 SECAM adaptor	
	OPK-203 teletext adaptor	
Design and specifications are subject to change without notice.		



TRINITRON® COLOR TV
SONY®

CTV

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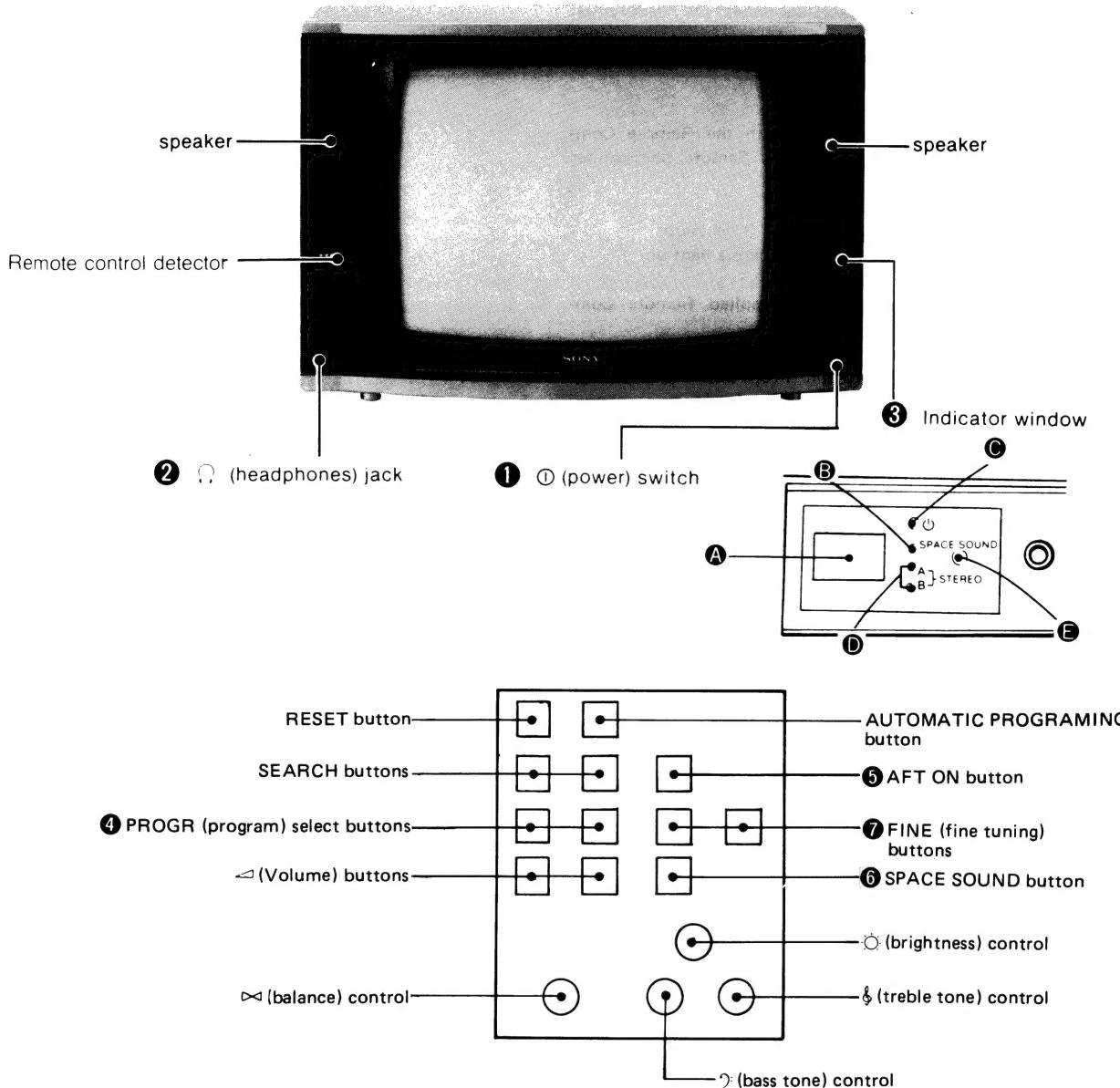
SAFETY-RELATED COMPONENT WARNING !!

COMPONENTS IDENTIFIED BY SHADING AND MARK  ON THE SCHEMATIC DIAGRAMS, EXPLODED VIEWS AND IN THE PARTS LIST ARE CRITICAL TO SAFE OPERATION. REPLACE THESE COMPONENTS WITH SONY PARTS WHOSE PART NUMBERS APPEAR AS SHOWN IN THIS MANUAL OR IN SUPPLEMENTS PUBLISHED BY SONY. CIRCUIT ADJUSTMENTS THAT ARE CRITICAL TO SAFE OPERATION ARE IDENTIFIED IN THIS MANUAL. FOLLOW THESE PROCEDURES WHENEVER CRITICAL COMPONENTS ARE REPLACED OR IMPROPER OPERATION IS SUSPECTED.

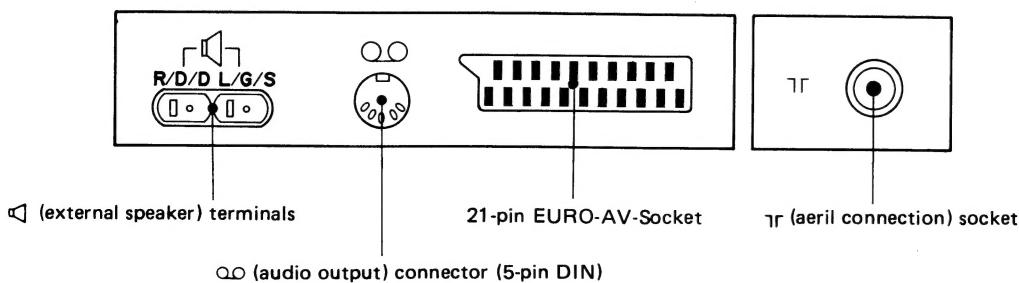
SECTION 1 GENERAL

1-1. LOCATION AND FUNCTION OF CONTROLS

On the front panel



On the rear panel



① ① (power) switch

Press to turn the TV on. Press again to turn the power off.

② ② (headphones) jack

Connect stereo headphones here. Speaker sound will be disconnected. If your stereo headphones have a stereo miniplug use an optional plug adaptor. To hear the sound from the speakers disconnect the headphones.

③ Indicator window

A Program indicator

B SPACE SOUND indicator

C ③ (standby) indicator

Lights up when the TV is turned off with the Remote Commander. When any of the buttons on the Remote Commander is pressed this lamp blinks.

D Zweiton/STEREO indicators

When a dual-sound program is received, A or B lights up.

When a stereo program is received both indicators light up.

E Remote control detector

Point the infrared transmitter of the supplied Remote Commander here.

④ PROGR (program) select buttons

Press either + or - to select a preset program (from positions 1 through 30). Press + for higher numbered programs and - for lower numbered programs. Programs will be changed continuously in sequence. The selected program number will appear on the program indicator.

⑤ AFT (automatic fine tuning) ON button

When the AFT circuit activates the indicator illuminates.

Press the AFT ON button to restore the AFT on the channel which has been fine-tuned manually with the FINE buttons. After the automatic programing is finished, or after a station is tuned and memorized in the manual programing system the AFT circuit will automatically reactivate.

⑥ SPACE SOUND button

Press to get special acoustic effects (for example more presence). The SPACE SOUND indicator will illuminate. To disengage press it again.

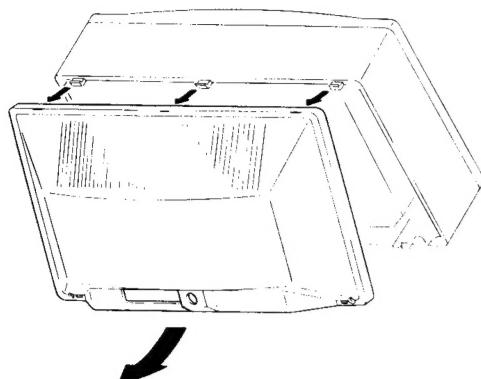
⑦ FINE (fine tuning) buttons

Keep either + or - depressed to get a clear picture for each unsatisfactory channel. The AFT circuit will be automatically deactivated.

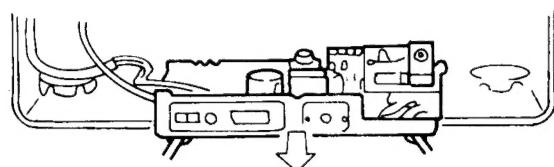
SECTION 2 DISASSEMBLY

2-1. OPK-202 ATTACHING

1 Remove the rear panel.



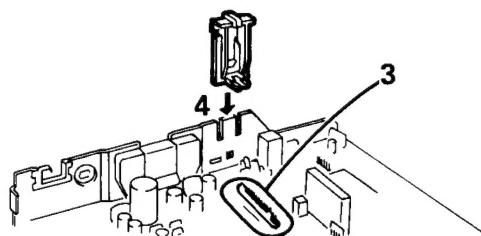
2 Pull out the main D board.



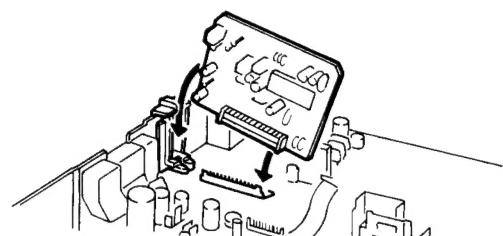
3 Cut off the five soldered connections marked SCM on the D-board:

JW 158, 169, 170, 171 and 172.

4 Insert the larger holder into the lefthand side frame.



5 Insert the adaptor into the D-20 board aligning the righthand pins first, and slide into the slot of the holder.



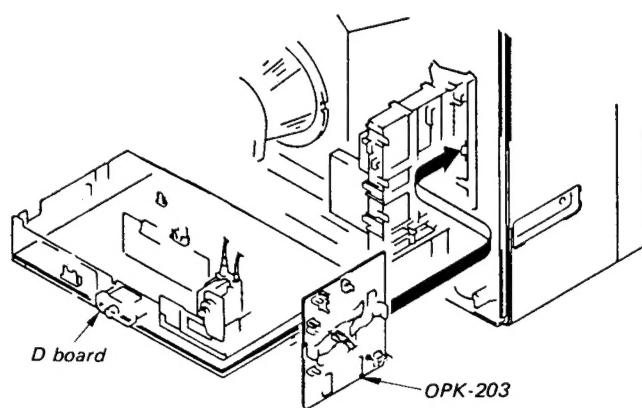
6 Connect the power plug, and check that the SECAM program is displayed in color.

7. Disconnect the power plug again and attach the rear panel.

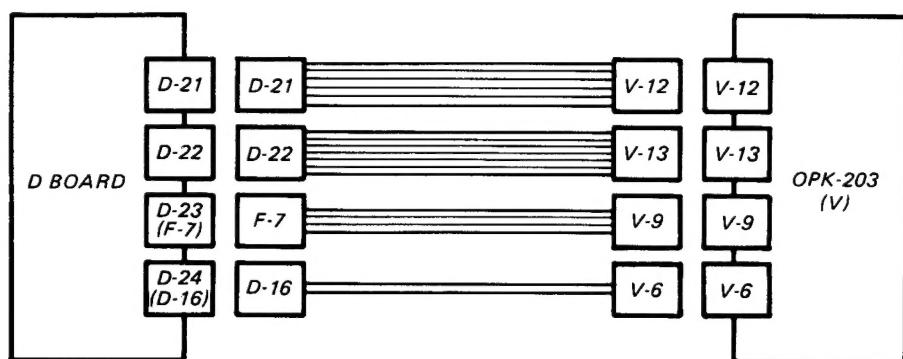
2-2. OPK-203 ATTACHING

Before installing the adaptor, unplug the set from the wall outlet.

1. Remove the rear panel.
2. Pull out the main D board.
3. Attach the OPK-203 board on the set in the reserved position using the holder or sash provided.



4. Connect to the reserve terminals as the connector.



5. Cut out the D004 of the D board.

6. PICTURE ADJUSTMENT

RV3: Adjust this VR to give the optimum contrast on TXT display.

RV2: Adjust this VR to obtain stable picture on non-interlace models.

7. Attach the rear panel.

SECTION 3

EXPLODED VIEWS

NOTE:

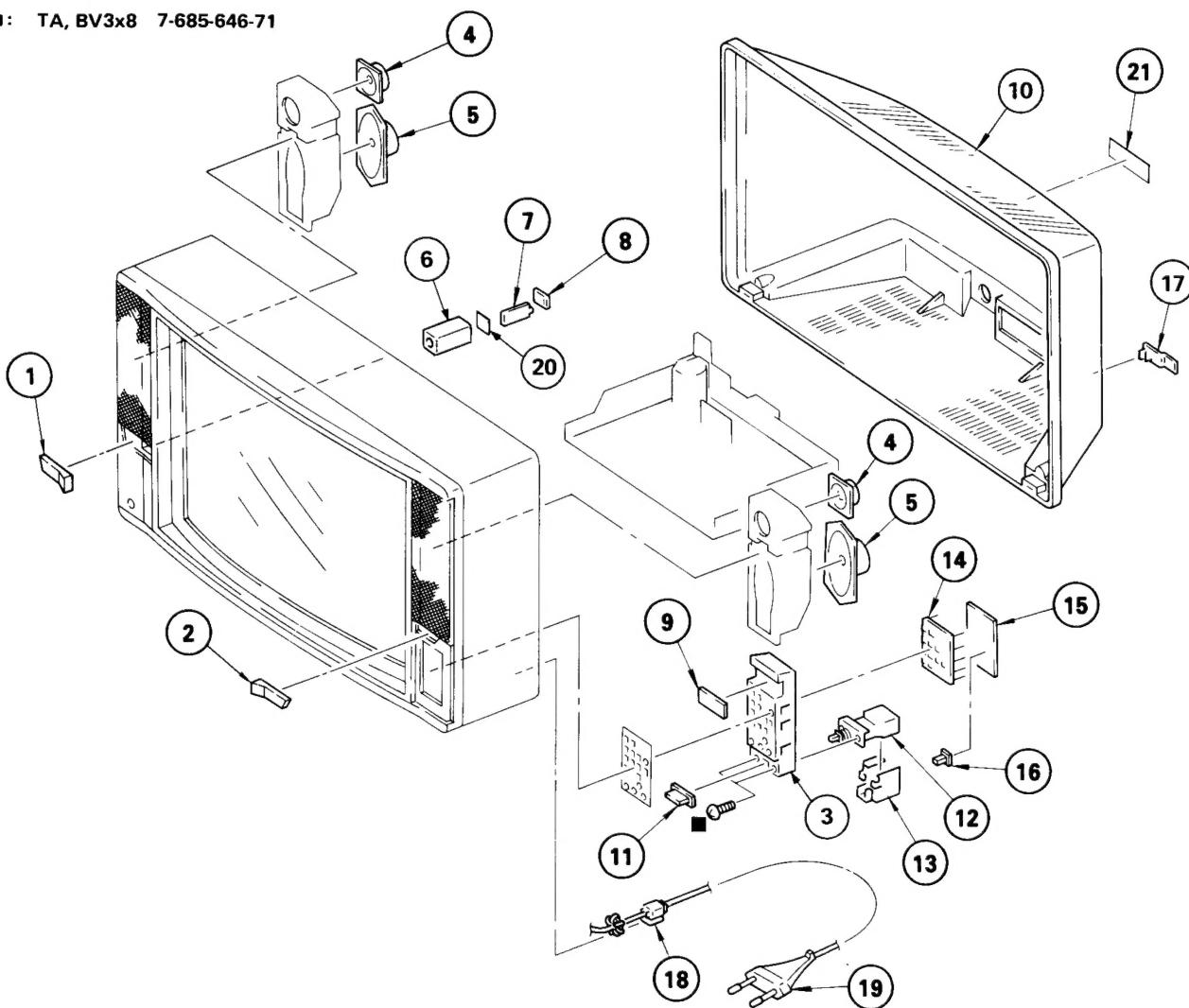
- Items with no part number and no description are not stocked because they are seldom required for routine service.
- The construction parts of an assembled part are indicated with a callout number in the remark column.

- Items marked "*" are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.

The components identified by shading and mark **A** are critical for safety. Replace only with part number specified.

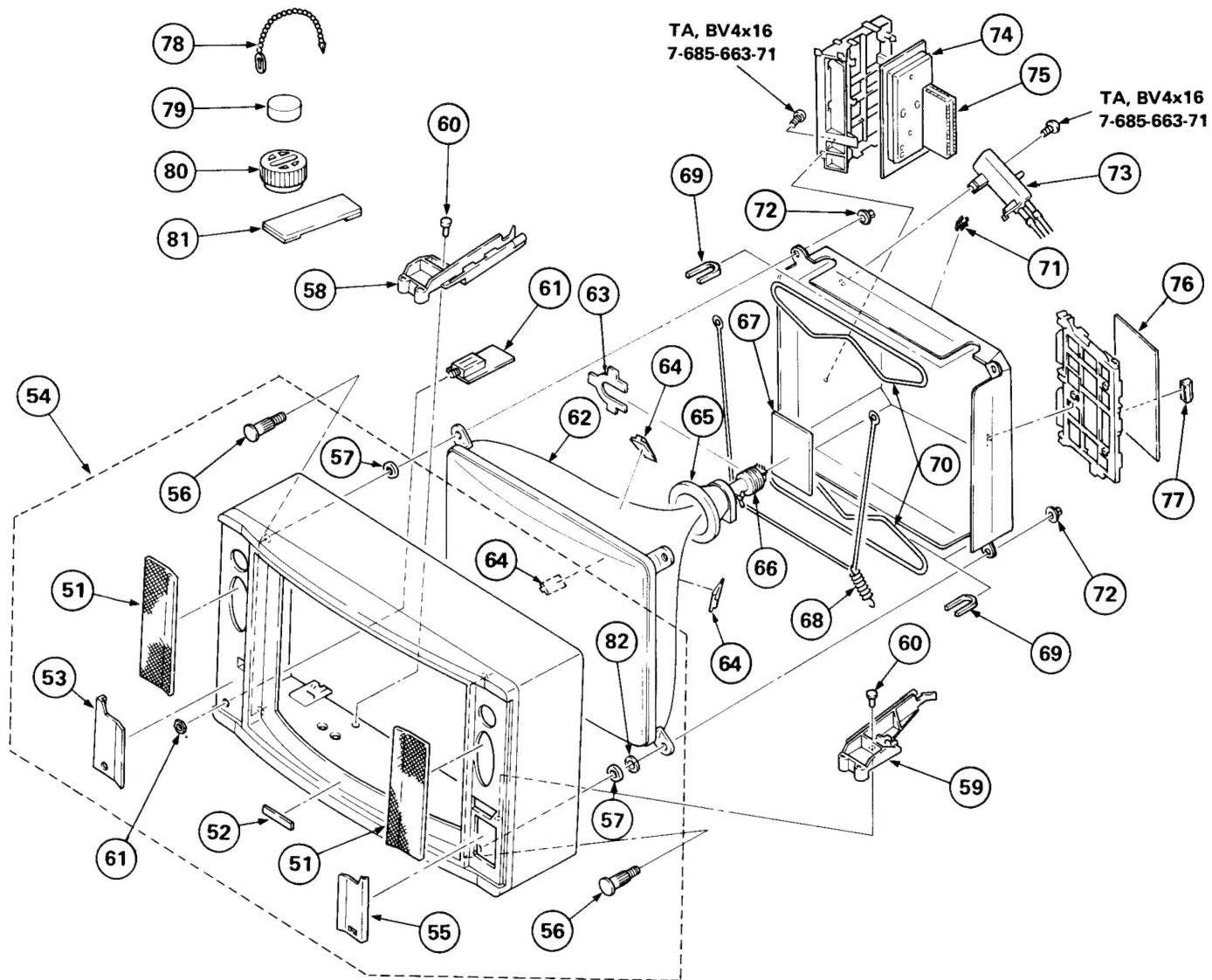
3-1. CABINET

■: TA, BV3x8 7-685-646-71



No.	Part No.	Description	Remark	No.	Part No.	Description	Remark
1	X-4373-201-1	WINDOW (L) ASSY, ORNAMENTAL		12	A.1-554-762-11	SWITCH, PUSH (AC POWER)(1 KEY)	
2	4-373-223-01	WINDOW (RIGHT), ORNAMENTAL		13	*4-373-216-01	CAP, INSULATING, POWER SWITCH	
3	*4-373-232-01	PANEL, CONTROL		14	4-373-213-01	BUTTON, MULTI	
4	1-503-314-11	SPEAKER		15	*1-612-976-21	H1 BOARD	
5	1-503-417-11	SPEAKER		16	4-361-938-00	PUSH BUTTON (A)	
6	*4-342-117-00	CASE, SHIELD (MAIN), R		17	4-329-127-00	CLAMP, CORD	
7	*1-611-717-11	N BOARD		18	A.4-022-115-01	HOLDER, AC CORD	
8	*4-342-118-00	LID, SHIELD CASE, R		19	A.1-551-270-31	CORD, POWER	
9	*1-612-977-21	H2 BOARD		20	*4-333-624-00	FILM (N), SPECIAL	
10	4-373-229-01	COVER, REAR		21	*4-373-209-02	LABEL, MODEL NUMBER	
11	4-373-206-01	BUTTON, POWER					

3-2. CRT

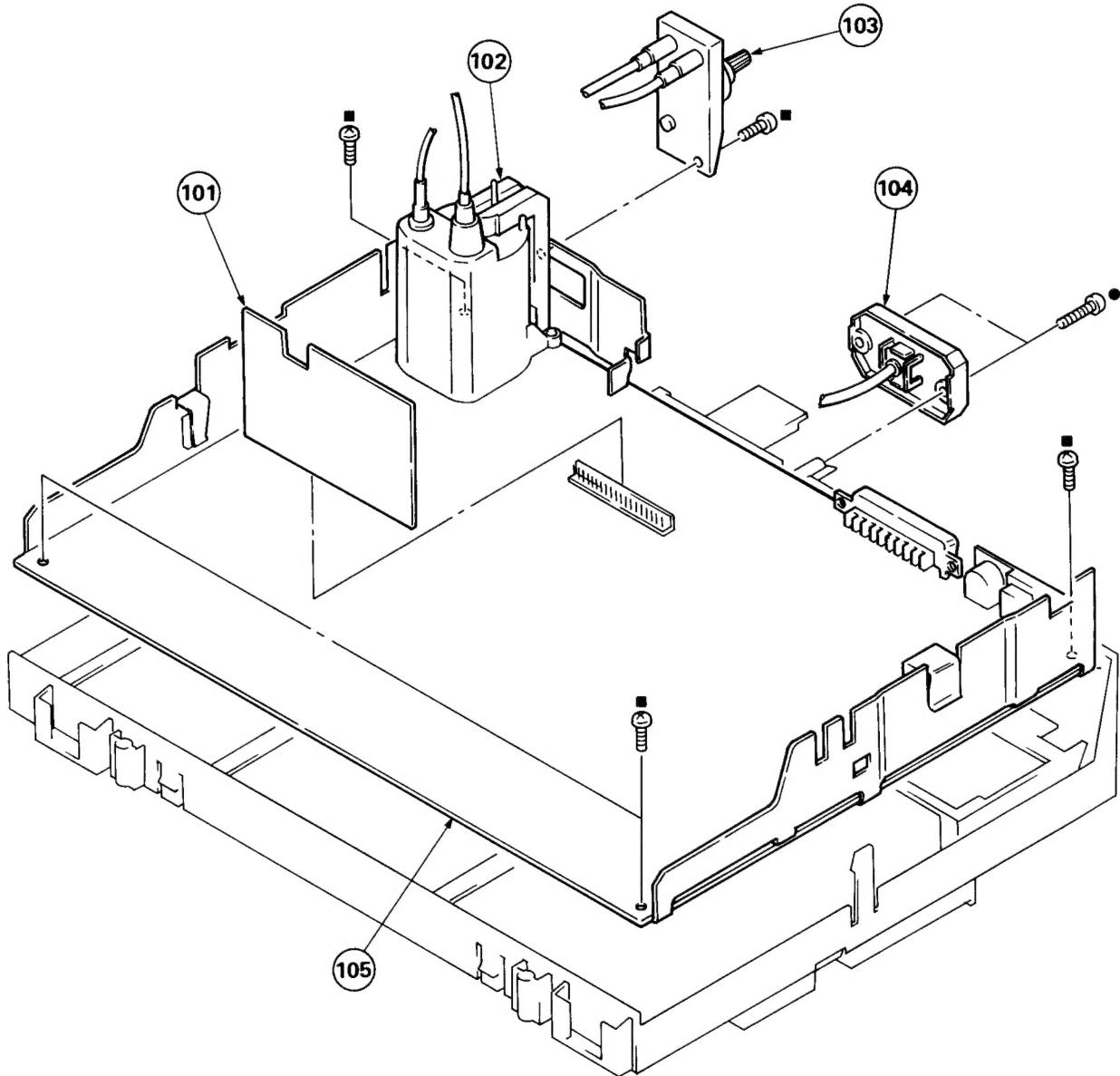


No.	Part No.	Description	Remark	No.	Part No.	Description	Remark
51	4-373-218-01	PLATE, ORNAMENTAL		67	*A-1330-616-A	C BOARD, COMPLETE	
52	3-701-912-00	EMBLEM, SONY, (LARGE)		68	4-303-774-XX	SPRING	
53	4-373-222-01	DOOR (LEFT)		69	*4-330-306-00	BUSHING, CRT INSULATING	
54	X-4373-202-1	CABINET ASSY	51, 52, 53, 55, 56, 57, 82	70	A.1-426-041-21	COIL, DEGAUSSING	
55	4-373-221-01	DOOR (RIGHT)		71	*4-322-922-00	HOLDER, COIL, DEGAUSSER	
56	4-373-204-01	SCREW, SPECIAL		72	4-373-210-01	NUT, SPECIAL	
57	4-373-205-01	WASHER, SPECIAL		73	A.1-228-544-11	RESISTOR ASSY, HIGH-VOLTAGE	
58	*4-373-228-01	HOLDER (C) (LEFT)		74	*A-1296-015-A	A BOARD, SUB, COMPLETE	
59	*4-373-227-01	HOLDER (C) (RIGHT)		75	A.1-463-577-11	TUNER, ET (BT-883A)	
60	4-373-234-01	CLIP		76	*A-1245-313-A	F BOARD, SUB, COMPLETE	
61	*1-615-566-11	J1 BOARD		77	*4-375-709-01	COVER, FUSE	
62	A.8-736-752-05	CRT (A64JKB00X)		78	4-308-870-00	CLIP, LEAD WIRE	
63	1-452-146-21	MAGNET, BMC		79	1-452-032-00	MAGNET, DISK; 10MM Ø	
64	3-703-003-00	SPACER, DY		80	1-452-094-00	MAGNET, ROTATABLE DISK; 15MM Ø	
65	A.1-451-156-51	DEFLECTION YOKE (SY-105)		81	X-4308-815-0	PERMALLOY ASSY, CONVERGENCE	
66	A.1-452-315-11	CRT NECK ASSY (NA303)		82	4-373-255-01	WASHER, CATHODE RAY TUBE	

The components identified by shading and mark Δ are critical for safety. Replace only with part number specified.

3-3. CHASSIS

- : TA, BV3x8 7-685-646-71
- : TA, BV3x12 7-685-648-71



No.	Part No.	Description	Remark	No.	Part No.	Description	Remark
101	*A-1340-714-A	D1 BOARD, COMPLETE		104	▲.1-536-817-31	TERMINAL BOARD ASSY, ANTENNA	
102	▲.1-439-332-41	TRANSFORMER ASSY, FLYBACK		105	*A-1345-536-A	D BOARD, SUB, COMPLETE	
103	▲.1-215-066-21	RES ASSY, HIGH-VOLTAGE					

The components identified by shading and mark ▲ are critical for safety. Replace only with part number specified.

SECTION 4
ELECTRICAL PARTS LIST

NOTE:

The components identified by shading and mark Δ are critical for safety. Replace only with part number specified.

• Items marked "★" are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.

When indicating parts by reference number, please include the board name.

• All variable and adjustable resistors have characteristic curve B, unless otherwise noted.

CAPACITORS

• MF : μ F, PF : $\mu\mu$ F

RESISTORS

• All resistors are in ohms
• F : nonflammable

COILS

• MMH : mH, UH : μ H

Ref.No.	Part No.	Description	Remark	Ref.No.	Part No.	Description	Remark		
*A-1245-313-A F BOARD, SUB, COMPLETE *****				DIODE					
CAPACITOR				D601	8-719-503-06	DIODE S3WB60Z			
C601	Δ.1-108-745-62	MYLAR	0.22MF	20%	300V	D602	8-719-100-65	DIODE RD12E-B2	
C602	Δ.1-108-745-62	MYLAR	0.22MF	20%	300V	D603	8-719-815-55	DIODE 1S1555	
C603	Δ.1-161-738-12	CERAMIC	0.0047MF	20%	400V	D604	8-759-157-40	IC UPC574J	
C604	Δ.1-161-738-12	CERAMIC	0.0047MF	20%	400V	D605	8-719-901-93	DIODE V19E	
C605	Δ.1-161-738-12	CERAMIC	0.0047MF	20%	400V	D606	8-719-815-55	DIODE 1S1555	
C606	Δ.1-161-738-12	CERAMIC	0.0047MF	20%	400V	D607	8-719-815-55	DIODE 1S1555	
C607	1-161-964-00	CERAMIC	0.0047MF		250V	D608	8-719-815-55	DIODE 1S1555	
C608	Δ.1-161-964-61	CERAMIC	0.0047MF		250V	D609	8-719-305-15	DIODE GH3F	
C609	Δ.1-161-964-61	CERAMIC	0.0047MF		250V	D651	8-719-928-08	DIODE ERD28-08S	
C610	1-125-318-00	ELECT(BLOCK)	220MF	20%	400V	D652	8-719-901-93	DIODE V19E	
C611	1-106-220-00	MYLAR	0.1MF	10%	100V	D653	8-719-901-93	DIODE V19E	
C612	1-130-022-00	FILM	0.0022MF	5%	50V	D654	8-719-901-93	DIODE V19E	
C613	1-123-356-00	ELECT	10MF	20%	16V	D655	8-719-901-93	DIODE V19E	
C614	1-123-369-00	ELECT	4.7MF	20%	25V	D655A	8-719-901-93	DIODE V19E	
C615	1-102-106-00	CERAMIC	100PF	10%	50V	D656	8-719-901-93	DIODE V19E	
C616	1-123-369-00	ELECT	4.7MF	20%	25V	D657	8-719-901-93	DIODE V19E	
C617	1-106-359-00	MYLAR	0.0047MF	10%	200V	D658	8-719-102-74	DIODE RD6.2E-N2	
C618	1-102-030-00	CERAMIC	330PF	10%	500V	D659	8-719-102-79	DIODE RD6.8E-N3	
C619	1-108-630-91	MYLAR	0.022MF	10%	100V	D660	8-719-815-55	DIODE 1S1555	
C620	1-123-332-00	ELECT	47MF	20%	16V	D661	8-719-815-55	DIODE 1S1555	
C621	1-136-065-00	FILM	0.0027MF	3%	2KV	D663	8-719-102-74	DIODE RD6.2E-N2	
C622	1-123-385-00	ELECT	22MF	20%	100V	D664	8-719-100-65	DIODE RD12E-B2	
C623	1-161-973-00	CERAMIC	220PF	10%	400V	CONNECTOR			
C624	1-161-973-00	CERAMIC	220PF	10%	400V	F1	*1-506-349-21	3P PLUG (L)	
C625	1-123-379-00	ELECT	0.47MF	20%	50V	F2	*1-508-765-00	3P PLUG (M)	
C626	1-123-381-00	ELECT	2.2MF	20%	50V	F3	*1-508-786-00	2P PLUG (M)	
C627	1-123-380-00	ELECT	1MF	20%	50V	F4	*1-508-765-00	3P PLUG (M)	
C628	1-108-618-91	MYLAR	0.0022MF	10%	100V	F6	*1-560-123-00	PLUG, CONNECTOR (2.5MM) 3P	
C632	1-102-002-00	CERAMIC	680PF	10%	500V	F7	*1-564-883-11	PLUG, CONNECTOR 6P	
C633	Δ.1-108-745-62	MYLAR	0.22MF	20%	300V	FUSE			
C634	1-110-175-81	MYLAR	0.1MF	10%	100	F601	Δ.1-532-465-31	FUSE, TIME-LAG 3.15A	
C651	1-102-155-00	CERAMIC	330PF	20%	2KV		1-533-087-00	HOLDER, FUSE; F601	
C652	1-124-347-00	ELECT	100MF	20%	160V	IC			
C653	1-123-364-00	ELECT	1000MF	20%	50V	IC601	8-759-100-75	IC UPC1394C	
C654	1-123-606-00	ELECT	1000MF	20%	25V	IC602	Δ.8-719-800-82	DIODE TLP581	
C655	1-123-334-00	ELECT	220MF	20%	25V	IC651	8-759-145-58	IC UPC4558C	
C656	1-102-038-00	CERAMIC	0.001MF		500V	COIL			
C658	1-123-332-00	ELECT	47MF	20%	16V	L601	1-407-365-00	COIL, CHOKE	
C659	1-102-112-00	CERAMIC	330PF	10%	50V	L651	1-425-613-00	COIL, AIR-CORE, OF TYPE	
C660	1-123-356-00	ELECT	10MF	20%	50V	L652	1-459-442-00	COIL (WITH CORE)	
C661	1-123-333-00	ELECT	100MF	20%	16V	TRANSISTOR			
C662	1-106-196-00	MYLAR	0.01MF	10%	100V	Q601	8-729-195-82	TRANSISTOR 2SC2958	
C663	1-123-380-00	ELECT	1MF	20%	50V	Q602	8-729-301-00	TRANSISTOR 2SD1497-02	
C664	1-123-380-00	ELECT	1MF	20%	50V		4-365-216-00	SPACER, MICA; Q602	
C666	1-123-307-00	ELECT	100MF	20%	6.3V				
C667	1-102-121-00	CERAMIC	0.0022MF	10%	50V				

F N A

Ref. No.	Part No.	Description			Remark	Ref. No.	Part No.	Description			Remark	
	*4-368-683-01	SPRING; Q602				R666	1-215-144-00	METAL	470	5%	1/4W	
Q603	8-729-245-83	TRANSISTOR 2SC2458				R667	1-215-126-81	METAL	82	5%	1/4W	
Q604	8-729-204-83	TRANSISTOR 2SA1048GR				R668	1-215-778-91	METAL	47K	5%	1/6W	
Q651	8-729-109-53	TRANSISTOR 2SD795A				R669	1-215-166-00	METAL	3.9K	5%	1/4W	
	*4-323-833-00	HEAT SINK, PIN OUT; Q651				R670	1-215-746-91	METAL	2.2K	5%	1/6W	
Q652	8-729-245-83	TRANSISTOR 2SC2458				<u>VARIABLE RESISTOR</u>						
	<u>RESISTOR</u>					RV651	1-228-720-00	RES, ADJ, CERAMIC CARBON 1K				
R601	▲.1-217-328-11	WIREWOUND	2.7	10%	7W	F	RV652	1-230-521-11	RES, ADJ, METAL GLAZE 2.2K			
R602	▲.1-244-945-91	CARBON	1M	5%	1/2W		<u>TRANSFORMER</u>					
R603	▲.1-217-310-11	WIREWOUND	100	10%	5W	F	T601	▲.1-421-758-11	TRANSFORMER, LINE FILTER (LFT)			
R604	▲.1-247-289-11	CARBON	8.2M	5%	1W		T602	▲.1-441-855-11	TRANSFORMER, HEATER INSULATION			
R605	1-215-798-91	METAL	330K	5%	1/6W		T603	1-437-079-00	TRANSFORMER, HORIZONTAL DRIVE			
R606	1-215-770-91	METAL	22K	5%	1/6W		T605	▲.1-421-652-11	TRANSFORMER, FERRITE (SRT)			
R608	1-215-746-91	METAL	2.2K	5%	1/6W		<u>THERMISTOR</u>					
R609	1-215-871-11	METAL OXIDE	2.2K	5%	1W	F	TH601	1-800-944-00	THERMISTOR TH-4700			
R611	1-215-776-91	METAL	39K	5%	1/6W		TH651	1-800-944-00	THERMISTOR TH-4700			
R612	▲.1-215-904-51	METAL OXIDE	100K	5%	2W	F	THP601	1-806-387-11	THERMISTOR (POSITIVE)			
R613	1-215-872-11	METAL OXIDE	3.3K	5%	1W	F	*****					
R614	1-216-458-11	METAL OXIDE	1.8K	5%	2W	F	*1-611-717-11 N BOARD					
R615	1-205-793-00	CEMENTED	30K	10%	10W		*****					
R616	1-215-772-91	METAL	27K	5%	1/6W		*****					
R621	1-215-762-91	METAL	10K	5%	1/6W		*****					
R622	1-215-770-91	METAL	22K	5%	1/6W		*****					
R623	1-215-162-00	METAL	2.7K	5%	1/4W		*4-342-117-00	CASE, SHIELD (MAIN), R				
R624	1-215-754-91	METAL	4.7K	5%	1/6W		*4-342-118-00	LID, SHIELD CASE, R				
R625	1-215-786-91	METAL	100K	5%	1/6W		<u>CAPACITOR</u>					
R626	1-215-150-00	METAL	820	5%	1/4W		C1	1-123-611-00	ELECT	1MF	20%	50V
R627	1-215-722-91	METAL	220	5%	1/6W		C2	1-123-613-00	ELECT	3.3MF	20%	50V
R628	1-215-796-91	METAL	270K	5%	1/6W		C3	1-102-112-00	CERAMIC	330PF	10%	50V
R629	1-215-758-91	METAL	6.8K	5%	1/6W		C4	1-123-821-00	ELECT	47MF	20%	16V
R630	1-215-112-00	METAL	22	5%	1/4W		<u>DIODE</u>					
R631	1-205-728-00	CEMENTED	47	10%	7W		D1	8-719-110-32	DIODE PH302B			
R632	1-217-192-00	WIREWOUND	0.22	10%	2W	F	<u>IC</u>					
R633	1-215-798-91	METAL	330K	5%	1/6W		IC1	8-752-010-60	IC CX20106			
R634	1-215-800-91	METAL	390K	5%	1/6W		<u>RESISTOR</u>					
R635	1-215-756-91	METAL	5.6K	5%	1/6W		R1	1-247-799-00	CARBON	47	5%	1/6W
R636	1-215-803-91	METAL	510K	5%	1/6W		R2	1-247-775-00	CARBON	4.7	5%	1/6W
R637	1-215-770-91	METAL	22K	5%	1/6W		R3	1-214-784-00	METAL	200K	1%	1/4W
R638	1-215-747-91	METAL	2.4K	5%	1/6W		R4	1-247-863-00	CARBON	22K	5%	1/6W
R639	1-215-754-91	METAL	4.7K	5%	1/6W		*****					
R640	▲.1-215-200-81	METAL	100K	5%	1/4W		*****					
R641	▲.1-215-200-81	METAL	100K	5%	1/4W		*****					
R651	1-216-455-11	METAL OXIDE	560	5%	2W	F	*****					
R652	1-216-430-11	METAL OXIDE	390	5%	1W	F	*****					
R653	1-215-754-91	METAL	4.7K	5%	1/6W		*****					
R654	1-216-464-11	METAL OXIDE	18K	5%	2W	F	*****					
R659	1-215-865-11	METAL OXIDE	220	5%	1W	F	*****					
R660	1-216-370-11	METAL OXIDE	1.2	5%	2W	F	*****					
R662	1-215-776-91	METAL	39K	5%	1/6W		*4-368-692-11	CASE (MAIN), SHIELD				
R663	1-215-764-91	METAL	12K	5%	1/6W		*4-368-693-11	CASE (UPPER LID), SHIELD				
R664	1-215-200-00	METAL	100K	5%	1/4W		*4-368-694-11	CASE (BOTTOM LID), SHIELD				
R665	1-215-753-91	METAL	4.3K	5%	1/6W		*****					

The components identified by shading and mark ▲ are critical for safety. Replace only with part number specified.

A

<u>Ref.No.</u>	<u>Part No.</u>	<u>Description</u>			<u>Remark</u>	<u>Ref.No.</u>	<u>Part No.</u>	<u>Description</u>			<u>Remark</u>
<u>CONNECTOR</u>											
A1	*1-564-880-31	PLUG, CONNECTOR 3P				C151	1-101-004-00	CERAMIC	0.01MF		50V
A2	*1-560-126-00	PLUG, CONNECTOR (2.5MM) 6P				C152	1-101-004-00	CERAMIC	0.01MF		50V
A3	*1-564-889-11	PLUG, CONNECTOR 12P				C153	1-123-356-00	ELECT	10MF	20%	16V
						C154	1-101-004-00	CERAMIC	0.01MF		50V
						C155	1-123-332-00	ELECT	47MF	20%	16V
<u>CAPACITOR</u>											
C102	1-123-586-00	ELECT	0.1MF	20%	50V	C156	1-123-306-00	ELECT	47MF	20%	10V
C104	1-123-356-00	ELECT	10MF	20%	16V	C157	1-123-306-00	ELECT	47MF	20%	10V
C105	1-123-356-00	ELECT	10MF	20%	16V	C158	1-123-379-00	ELECT	0.47MF	20%	50V
C106	1-123-323-00	ELECT	470MF	20%	16V	C159	1-102-816-00	CERAMIC	120PF	5%	50V
C107	1-123-330-00	ELECT	22MF	20%	16V	C160	1-102-125-00	CERAMIC	0.0047MF	10%	50V
C108	1-136-163-00	FILM	0.068MF	5%	50V	C164	1-108-620-91	MYLAR	0.0033MF	10%	100V
C109	1-136-163-00	FILM	0.068MF	5%	50V	C165	1-108-620-91	MYLAR	0.0033MF	10%	100V
C110	1-102-963-00	CERAMIC	33PF	5%	50V	C167	1-108-620-91	MYLAR	0.0033MF	10%	100V
C111	1-123-318-00	ELECT	33MF	20%	16V	C168	1-108-620-91	MYLAR	0.0033MF	10%	100V
C112	1-102-530-00	CERAMIC	120PF	5%	50V	C169	1-123-356-00	ELECT	10MF	20%	16V
C113	1-102-530-00	CERAMIC	120PF	5%	50V	C170	1-123-356-00	ELECT	10MF	20%	16V
C114	1-102-851-00	CERAMIC	15PF	5%	50V	C172	1-123-379-00	ELECT	0.47MF	20%	50V
C115	1-102-518-00	CERAMIC	33PF	5%	50V	C173	1-123-379-00	ELECT	0.47MF	20%	50V
C116	1-102-125-00	CERAMIC	0.0047MF	10%	50V	C174	1-106-196-00	MYLAR	0.01MF	10%	100V
C117	1-102-125-00	CERAMIC	0.0047MF	10%	50V	C175	1-106-196-00	MYLAR	0.01MF	10%	100V
C118	1-102-125-00	CERAMIC	0.0047MF	10%	50V	C176	1-123-380-00	ELECT	1MF	20%	50V
C119	1-108-603-00	MYLAR	0.1MF	5%	50V	C177	1-123-380-00	ELECT	1MF	20%	50V
C120	1-102-125-00	CERAMIC	0.0047MF	10%	50V	C179	1-123-369-00	ELECT	4.7MF	20%	25V
C122	1-123-330-00	ELECT	22MF	20%	16V	C180	1-108-620-91	MYLAR	0.0033MF	10%	100V
C123	1-102-108-00	CERAMIC	150PF	10%	50V	C181	1-123-318-00	ELECT	33MF	20%	16V
C124	1-104-069-00	POLYSTYRENE	470PF	5%	50V	C182	1-123-307-00	ELECT	100MF	20%	10V
C126	1-123-318-00	ELECT	33MF	20%	16V	C183	1-101-361-00	CERAMIC	150PF	5%	50V
C127	1-102-125-00	CERAMIC	0.0047MF	10%	50V	C184	1-102-973-00	CERAMIC	100PF	5%	50V
C128	1-101-004-00	CERAMIC	0.01MF			C186	1-102-121-00	CERAMIC	0.0022MF	10%	50V
C129	1-101-004-00	CERAMIC	0.01MF			C188	1-102-125-00	CERAMIC	0.0047MF	10%	50V
C130	1-102-125-00	CERAMIC	0.0047MF	10%	50V	<u>DISCRIMINATOR</u>					
C131	1-123-381-00	ELECT	2.2MF	20%	50V	CD151	1-404-501-00	DISCRIMINATOR, CERAMIC			
C132	1-102-125-00	CERAMIC	0.0047MF	10%	50V	<u>FILTER</u>					
C133	1-102-125-00	CERAMIC	0.0047MF	10%	50V	CF101	1-527-840-00	FILTER, CERAMIC			
C134	1-102-125-00	CERAMIC	0.0047MF	10%	50V	CF102	1-404-134-00	TRAP, CERAMIC (5.5MHZ)			
C135	1-102-525-00	CERAMIC	68PF	5%	50V	CF151	1-527-839-00	FILTER, CERAMIC			
C136	1-102-525-00	CERAMIC	68PF	5%	50V	<u>DIODE</u>					
C137	1-102-125-00	CERAMIC	0.0047MF	10%	50V	D101	8-719-911-19	DIODE 1SS119			
C138	1-123-380-00	ELECT	1MF	20%	50V	D102	8-719-911-19	DIODE 1SS119			
C139	1-102-125-00	CERAMIC	0.0047MF	10%	50V	D103	8-719-102-71	DIODE RD5.6E-N2			
C140	1-102-125-00	CERAMIC	0.0047MF	10%	50V	D104	8-719-911-19	DIODE 1SS119			
C141	1-123-318-00	ELECT	33MF	20%	16V	D105	8-719-911-19	DIODE 1SS119			
C142	1-102-525-00	CERAMIC	68PF	5%	50V	D151	8-719-911-19	DIODE 1SS119			
C143	1-101-004-00	CERAMIC	0.01MF			D152	8-719-911-19	DIODE 1SS119			
C144	1-123-286-00	ELECT	0.33MF	20%	50V	D153	8-719-911-19	DIODE 1SS119			
C145	1-102-961-00	CERAMIC	27PF	5%	50V	D154	8-719-911-19	DIODE 1SS119			
C146	1-123-380-00	ELECT	1MF	20%	50V	D170	8-719-911-19	DIODE 1SS119			
C147	1-130-072-00	FILM	0.022MF	2%	100V	<u>—12—</u>					
C148	1-108-622-91	MYLAR	0.0047MF	10%	100V	D171	8-719-911-19	DIODE 1SS119			
C149	1-102-529-00	CERAMIC	100PF	5%	50V						
C150	1-102-852-00	CERAMIC	47PF	5%	50V						

A

Ref.No.	Part No.	Description		Remark	Ref.No.	Part No.	Description		Remark	
<u>IC</u>										
IC101	8-759-909-08	IC	TDA3541		R110	1-249-421-11	CARBON	2.2K	5% 1/6W	
IC102	8-759-909-54	IC	TDA2546A		R111	1-247-847-00	CARBON	4.7K	5% 1/6W	
IC103	8-759-602-16	IC	M54572L		R112	1-247-827-00	CARBON	680	5% 1/6W	
IC151	8-759-007-54	IC	TDA4940		R113	1-247-845-00	CARBON	3.9K	5% 1/6W	
IC152	8-759-007-55	IC	TDA4944		R114	1-247-815-00	CARBON	220	5% 1/6W	
<u>COIL</u>										
L101	1-404-476-00	COIL, IF			R115	1-249-419-11	CARBON	1.5K	5% 1/6W	
L102	1-404-476-00	COIL, IF			R116	1-247-823-00	CARBON	470	5% 1/6W	
L103	1-408-399-00	MICRO INDUCTOR	1.5UH		R117	1-247-803-00	CARBON	68	5% 1/6W	
L104	1-408-406-00	MICRO INDUCTOR	5.6UH		R118	1-247-817-00	CARBON	270	5% 1/6W	
L105	1-404-477-00	COIL, IF			R119	1-247-823-00	CARBON	470	5% 1/6W	
L106	1-404-493-00	COIL			R120	1-249-437-11	CARBON	47K	5% 1/6W	
L107	1-404-493-00	COIL			R122	1-249-429-11	CARBON	10K	5% 1/6W	
L109	1-408-409-00	MICRO INDUCTOR	10UH		R125	1-247-829-00	CARBON	820	5% 1/6W	
L110	1-408-406-00	MICRO INDUCTOR	5.6UH		R126	1-247-829-00	CARBON	820	5% 1/6W	
L111	1-404-493-00	COIL			R127	1-247-829-00	CARBON	820	5% 1/6W	
L113	1-408-226-00	MICRO INDUCTOR	82UH		R129	1-247-903-00	CARBON	1M	5% 1/6W	
L114	1-407-489-00	MICRO INDUCTOR	560UH		R131	1-249-437-11	CARBON	47K	5% 1/6W	
L116	1-408-406-00	MICRO INDUCTOR	5.6UH		R132	1-249-429-11	CARBON	10K	5% 1/6W	
L117	1-408-428-00	MICRO INDUCTOR	390UH		R134	1-247-875-00	CARBON	68K	5% 1/6W	
L170	1-408-247-00	MICRO INDUCTOR	33MMH		R135	1-247-873-00	CARBON	56K	5% 1/6W	
L171	1-408-408-00	MICRO INDUCTOR	8.2UH		R136	1-247-863-00	CARBON	22K	5% 1/6W	
<u>TRANSISTOR</u>										
Q101	8-729-245-83	TRANSISTOR	2SC2458		R137	1-247-863-00	CARBON	22K	5% 1/6W	
Q102	8-729-105-47	TRANSISTOR	2SC2026-L		R140	1-247-831-00	CARBON	1K	5% 1/6W	
Q103	8-729-204-83	TRANSISTOR	2SA1048GR		R141	1-247-859-00	CARBON	15K	5% 1/6W	
Q104	8-729-900-36	TRANSISTOR	DTC124ES		R142	1-247-879-00	CARBON	100K	5% 1/6W	
Q105	8-729-204-83	TRANSISTOR	2SA1048GR		R143	1-247-879-00	CARBON	100K	5% 1/6W	
Q151	8-729-245-83	TRANSISTOR	2SC2458		R144	1-247-845-00	CARBON	3.9K	5% 1/6W	
Q152	8-729-245-83	TRANSISTOR	2SC2458		R145	1-247-845-00	CARBON	3.9K	5% 1/6W	
Q153	8-729-245-83	TRANSISTOR	2SC2458		R146	1-247-847-00	CARBON	4.7K	5% 1/6W	
Q154	8-729-900-89	TRANSISTOR	DTC144ES		R151	1-247-829-00	CARBON	820	5% 1/6W	
Q155	8-729-245-83	TRANSISTOR	2SC2458		R152	1-247-869-00	CARBON	39K	5% 1/6W	
Q156	8-729-245-83	TRANSISTOR	2SC2458		R153	1-247-821-00	CARBON	390	5% 1/6W	
Q157	8-729-900-89	TRANSISTOR	DTC144ES		R154	1-247-807-00	CARBON	100	5% 1/6W	
Q158	8-729-900-89	TRANSISTOR	DTC144ES		R155	1-247-863-00	CARBON	22K	5% 1/6W	
Q172	8-729-204-83	TRANSISTOR	2SA1048GR		R156	1-247-877-00	CARBON	82K	5% 1/6W	
Q173	8-729-245-83	TRANSISTOR	2SC2458		R157	1-247-847-00	CARBON	4.7K	5% 1/6W	
Q174	8-729-245-83	TRANSISTOR	2SC2458		R158	1-247-847-00	CARBON	4.7K	5% 1/6W	
Q175	8-729-245-83	TRANSISTOR	2SC2458		R159	1-247-847-00	CARBON	4.7K	5% 1/6W	
<u>RESISTOR</u>										
R101	1-247-831-00	CARBON	1K	5%	1/6W	R160	1-247-847-00	CARBON	4.7K	5% 1/6W
R102	1-247-831-00	CARBON	1K	5%	1/6W	R161	1-247-831-00	CARBON	1K	5% 1/6W
R105	1-247-853-00	CARBON	8.2K	5%	1/6W	R162	1-247-831-00	CARBON	1K	5% 1/6W
R106	1-247-843-00	CARBON	3.3K	5%	1/6W	R166	1-247-843-00	CARBON	3.3K	5% 1/6W
R107	1-247-843-00	CARBON	3.3K	5%	1/6W	R167	1-247-867-00	CARBON	33K	5% 1/6W
R108	1-247-891-00	CARBON	330K	5%	1/6W	R168	1-247-863-00	CARBON	22K	5% 1/6W
R109	1-249-421-11	CARBON	2.2K	5%	1/6W	R172	1-247-813-00	CARBON	180	5% 1/6W
						R173	1-249-437-11	CARBON	47K	5% 1/6W
						R174	1-247-889-00	CARBON	270K	5% 1/6W
						R175	1-249-434-11	CARBON	27K	5% 1/6W
						R176	1-247-831-00	CARBON	1K	5% 1/6W
						R177	1-249-429-11	CARBON	10K	5% 1/6W
						R178	1-249-429-11	CARBON	10K	5% 1/6W
						R179	1-249-429-11	CARBON	10K	5% 1/6W
						R180	1-247-831-00	CARBON	1K	5% 1/6W

A C

The components identified by shading and mark A are critical for safety. Replace only with part number specified.

C D1

Ref. No.	Part No.	Description			Remark	Ref. No.	Part No.	Description			Remark
R712	1-214-784-00	METAL	200K	1%	1/4W			SPARK GAP			
R713	1-247-853-00	CARBON	8.2K	5%	1/6W		SG701	1-519-063-XX	DISCHARGING GAP		
R714	1-247-853-00	CARBON	8.2K	5%	1/6W		SG702	1-519-063-XX	DISCHARGING GAP		
R715	1-247-854-00	CARBON	9.1K	5%	1/6W		SG703	1-519-063-XX	DISCHARGING GAP		
R716	1-247-725-11	CARBON	10K	5%	1/4W						
R717	1-247-725-11	CARBON	10K	5%	1/4W						
R718	1-247-725-11	CARBON	10K	5%	1/4W						
R719	1-247-833-00	CARBON	1.2K	5%	1/6W						
R720	1-247-833-00	CARBON	1.2K	5%	1/6W						
R721	1-247-833-00	CARBON	1.2K	5%	1/6W						
R722	1-247-843-00	CARBON	3.3K	5%	1/6W			CAPACITOR			
R723	1-247-843-00	CARBON	3.3K	5%	1/6W		C1528	1-123-380-00	ELECT	1MF	20% 50V
R724	1-247-843-00	CARBON	3.3K	5%	1/6W		C1554	1-123-330-00	ELECT	22MF	20% 16V
R725	1-214-962-00	METAL	820K	1%	1/4W		C1555	1-123-356-00	ELECT	10MF	20% 16V
R726	1-214-960-00	METAL	680K	1%	1/4W		C1556	1-124-009-11	ELECT	47MF	20% 25V
R727	1-214-952-00	METAL	330K	1%	1/4W		C1557	1-123-382-00	ELECT	3.3MF	20% 50V
R730	1-215-890-11	METAL OXIDE	470	5%	2W	F	C1558	1-124-661-11	ELECT	100MF	20% 50V
R731	1-249-429-11	CARBON	10K	5%	1/6W		C1559	1-106-208-00	MYLAR	0.033MF	10% 100V
R732	1-247-837-00	CARBON	1.8K	5%	1/6W		C1560	1-106-192-00	MYLAR	0.0068MF	10% 100V
R733	1-247-827-00	CARBON	680	5%	1/6W		C1561	1-108-637-00	MYLAR	0.082MF	10% 100V
R734	1-249-419-11	CARBON	1.5K	5%	1/6W		C1562	1-123-356-00	ELECT	10MF	20% 16V
R741	1-207-458-00	WIREWOUND	0.39	10%	1/2W		C1563	1-108-630-91	MYLAR	0.022MF	10% 100V
R742	1-202-814-91	SOLID	33K	10%	1/2W		C1564	1-129-701-00	FILM	0.01MF	5% 100V
R743	1-202-719-00	SOLID	1M	10%	1/2W		C1565	1-108-622-91	MYLAR	0.0047MF	10% 100V
R744	1-202-843-91	SOLID	270K	10%	1/2W		C1567	1-106-196-00	MYLAR	0.01MF	10% 100V
R745	1-202-842-91	SOLID	220K	10%	1/2W		C1568	1-123-333-00	ELECT	100MF	20% 16V
R746	1-202-824-00	SOLID	3.3K	10%	1/2W		C1569	1-108-630-91	MYLAR	0.022MF	10% 100V
R747	1-202-824-00	SOLID	3.3K	10%	1/2W		C1570	1-106-196-00	MYLAR	0.01MF	10% 100V
R748	1-202-824-00	SOLID	3.3K	10%	1/2W		C1571	1-108-614-91	MYLAR	0.001MF	10% 100V
R751	1-247-833-00	CARBON	1.2K	5%	1/6W		C1573	1-123-380-00	ELECT	1MF	20% 50V
R752	1-247-849-00	CARBON	5.6K	5%	1/6W		C1574	1-106-212-00	MYLAR	0.047MF	10% 100V
R753	1-247-825-00	CARBON	560	5%	1/6W			CONNECTOR			
R754	1-249-434-11	CARBON	27K	5%	1/6W		D19	*1-562-370-21 CONNECTOR, BOARD TO BOARD 18P			
R755	1-247-807-00	CARBON	100	5%	1/6W						
R756	1-249-419-11	CARBON	1.5K	5%	1/6W			DIODE			
R757	1-247-807-00	CARBON	100	5%	1/6W		D1552	8-719-911-19 DIODE 1SS119			
R758	1-247-815-00	CARBON	220	5%	1/6W						
R760	1-247-819-00	CARBON	330	5%	1/6W			IC			
R761	1-249-429-11	CARBON	10K	5%	1/6W		IC1553	8-759-905-39 IC TDA1082			
R762	1-247-895-00	CARBON	470K	5%	1/6W						
R763	1-249-429-11	CARBON	10K	5%	1/6W			COIL			
R764	1-246-981-00	CARBON	4.7	5%	1/8W	F					
R765	1-246-981-00	CARBON	4.7	5%	1/8W	F					
R766	1-247-833-00	CARBON	1.2K	5%	1/6W		L1551	1-408-242-00	MICRO INDUCTOR 10MMH		
R767	1-247-837-00	CARBON	1.8K	5%	1/6W		L1552	1-408-247-00	MICRO INDUCTOR 33MMH		
R768	1-216-449-11	METAL OXIDE	56	5%	2W	F	L1553	1-407-509-00	MICRO INDUCTOR 27MMH		
R769	1-217-403-00	FUSIBLE	220	5%	1/4W	F	L1554	1-408-245-00	MICRO INDUCTOR 22MMH		
VARIABLE RESISTOR											
RV701	1-228-723-00	RES, ADJ, CERAMIC	4.7K				Q1553	8-729-103-43	TRANSISTOR 2SB734		
RV702	1-228-723-00	RES, ADJ, CERAMIC	4.7K				Q1554	8-729-195-82	TRANSISTOR 2SC2958		
RV741	1-226-157-11	RES, ADJ, METAL GLAZE	1M								

The components identified by shading and mark  are critical for safety. Replace only with part number specified.

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<u>Ref.No.</u>	<u>Part No.</u>	<u>Description</u>	<u>Remark</u>	<u>Ref.No.</u>	<u>Part No.</u>	<u>Description</u>	<u>Remark</u>
RESISTOR							
R1554	1-247-718-11	CARBON	2.7K 5% 1/4W	C001	1-123-307-00	ELECT	100MF 20% 10V
R1555	1-247-815-00	CARBON	220 5% 1/6W	C002	1-123-381-00	ELECT	2.2MF 20% 50V
R1556	1-247-161-00	CARBON	18K 5% 1/4W	C003	1-102-973-00	CERAMIC	100PF 5% 50V
R1557	1-247-861-00	CARBON	18K 5% 1/6W	C004	1-108-603-00	MYLAR	0.1MF 5% 50V
R1558	1-247-145-00	CARBON	3.9K 5% 1/4W	C005	1-123-356-00	ELECT	10MF 20% 50V
R1559	1-246-486-00	CARBON	3.6K 5% 1/4W	C006	1-102-959-00	CERAMIC	22PF 5% 50V
R1560	1-247-815-00	CARBON	220 5% 1/6W	C007	1-102-963-00	CERAMIC	33PF 5% 50V
R1561	1-247-702-11	CARBON	150 5% 1/4W	C008	1-123-356-00	ELECT	10MF 20% 50V
R1562	1-247-161-00	CARBON	18K 5% 1/4W	C009	1-102-114-00	CERAMIC	470PF 10% 50V
R1563	1-247-787-00	CARBON	15 5% 1/6W	C010	1-123-369-00	ELECT	4.7MF 20% 25V
R1564	1-249-429-11	CARBON	10K 5% 1/6W	C011	1-124-253-00	ELECT	0.47MF 20% 50V
R1565	1-216-451-11	METAL OXIDE	120 5% 2W F	C012	1-101-004-00	CERAMIC	0.01MF 50V
R1567	1-247-725-11	CARBON	10K 5% 1/4W	C015	1-123-381-00	ELECT	2.2MF 20% 50V
R1568	1-247-809-00	CARBON	120 5% 1/6W	C016	1-101-810-00	CERAMIC	100PF 5% 500V
R1569	1-216-423-11	METAL OXIDE	27 5% 1W F	C017	1-123-306-00	ELECT	47MF 20% 10V
R1570	1-247-242-00	CARBON	1.2K 5% 1/2W F	C017A	1-123-307-00	ELECT	100MF 20% 10V
R1571	1-215-865-11	METAL OXIDE	220 5% 1W F	C018	1-106-220-00	MYLAR	0.1MF 10% 100V
R1572	1-247-803-00	CARBON	68 5% 1/6W	C019	1-123-306-00	ELECT	47MF 20% 10V
R1573	1-247-891-00	CARBON	330K 5% 1/6W	C020	1-102-112-00	CERAMIC	330PF 10% 50V
R1575	1-247-109-00	CARBON	120 5% 1/4W	C022	1-161-377-00	CERAMIC	0.0047MF 20% 50V
R1576	1-247-831-00	CARBON	1K 5% 1/6W	C026	1-102-074-00	CERAMIC	0.001MF 10% 50V
R1577	1-247-153-00	CARBON	8.2K 5% 1/4W	C201	1-102-114-00	CERAMIC	470PF 10% 50V
R1578	1-247-895-00	CARBON	470K 5% 1/6W	C202	1-102-074-00	CERAMIC	0.001MF 10% 50V
R1579	1-249-434-11	CARBON	27K 5% 1/6W	C203	1-123-380-00	ELECT	1MF 20% 50V
R1580	1-247-897-00	CARBON	560K 5% 1/6W	C204	1-102-114-00	CERAMIC	470PF 10% 50V
R1583	1-247-171-00	CARBON	47K 5% 1/4W	C205	1-123-379-00	ELECT	0.47MF 20% 50V
R1586	1-247-805-00	CARBON	82 5% 1/6W	C206	1-102-074-00	CERAMIC	0.001MF 10% 50V
VARIABLE RESISTOR							
RV1551	1-226-771-00	RES, ADJ, METAL GLAZE 1K		C207	1-123-380-00	ELECT	1MF 20% 50V
RV1552	1-228-719-00	RES, ADJ, CERAMIC CARBON 470		C208	1-123-332-00	ELECT	47MF 20% 16V
RV1553	1-228-720-00	RES, ADJ, CERAMIC CARBON 1K		C209	1-106-212-00	MYLAR	0.047MF 10% 100V
RV1554	1-228-724-00	RES, ADJ, CERAMIC CARBON 10K		C210	1-108-614-91	MYLAR	0.001MF 10% 100V
RV1555	1-228-718-00	RES, ADJ, CERAMIC CARBON 330		C211	1-123-380-00	ELECT	1MF 20% 50V
RV1557	1-228-718-00	RES, ADJ, CERAMIC CARBON 330		C212	1-123-369-00	ELECT	4.7MF 20% 50V
RV1559	1-228-724-00	RES, ADJ, CERAMIC CARBON 10K		C213	1-123-356-00	ELECT	10MF 20% 16V
RV1560	1-228-728-00	RES, ADJ, CERAMIC CARBON 100K		C214	1-123-356-00	ELECT	10MF 20% 16V
RV1561	1-228-728-00	RES, ADJ, CERAMIC CARBON 100K		C215	1-123-356-00	ELECT	10MF 20% 16V
RV1562	1-228-725-00	RES, ADJ, CERAMIC CARBON 22K		C216	1-123-356-00	ELECT	10MF 20% 16V
THERMISTOR							
TH1551	1-800-625-00	THERMISTOR		C220	1-106-212-00	MYLAR	0.047MF 10% 100V
TH1552	1-806-110-00	THERMISTOR		C221	1-108-614-91	MYLAR	0.001MF 10% 100V

*A-1345-536-A D BOARD, SUB, COMPLETE				C222	1-123-322-00	ELECT	330MF 20% 16V
*****				C226	1-123-330-00	ELECT	22MF 20% 16V
4-303-483-00 HEAD, WASHER, TAPPING SCREW				C227	1-123-330-00	ELECT	22MF 20% 16V
				C228	1-102-945-00	CERAMIC	8PF 1PF 50V
				C229	1-102-108-00	CERAMIC	150PF 10% 50V
				C230	1-106-208-00	MYLAR	0.033MF 10% 100V

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Ref.No.	Part No.	Description		Remark	Ref.No.	Part No.	Description		Remark		
C231	1-123-333-00	ELECT	100MF	20%	16V	C327	1-121-705-00	ELECT	2.2MF	30%	25V
C232	1-123-330-00	ELECT	22MF	20%	16V	C328	1-102-973-00	CERAMIC	100PF	5%	50V
C233	1-102-114-00	CERAMIC	470PF	10%	50V	C329	1-101-004-00	CERAMIC	0.01MF		50V
C234	1-123-379-00	ELECT	0.47MF	20%	50V	C331	1-161-330-00	CERAMIC	0.01MF	30%	25V
C235	1-123-330-00	ELECT	22MF	20%	16V	C332	1-101-880-00	CERAMIC	47PF	5%	50V
C236	1-102-114-00	CERAMIC	470PF	10%	50V	C333	1-123-356-00	ELECT	10MF	20%	16V
C237	1-123-379-00	ELECT	0.47MF	20%	50V	C334	1-123-356-00	ELECT	10MF	20%	16V
C238	1-108-603-00	MYLAR	0.1MF	5%	50V	C336	1-102-858-00	CERAMIC	10PF	0.5PF	50V
C239	1-108-603-00	MYLAR	0.1MF	5%	50V	C337	1-102-888-00	CERAMIC	150PF	5%	50V
C240	1-108-603-00	MYLAR	0.1MF	5%	50V	C338	1-102-884-00	CERAMIC	33PF	5%	50V
C241	1-123-333-00	ELECT	100MF	20%	16V	C339	1-102-959-00	CERAMIC	22PF	5%	50V
C243	1-123-332-00	ELECT	47MF	20%	16V	C340	1-102-945-00	CERAMIC	8PF	1PF	50V
C244	1-102-114-00	CERAMIC	470PF	10%	50V	C341	1-102-947-00	CERAMIC	10PF	5%	50V
C245	1-102-114-00	CERAMIC	470PF	10%	50V	C342	1-102-676-00	CERAMIC	68PF	5%	50V
C272	1-108-603-00	MYLAR	0.1MF	5%	50V	C343	1-102-973-00	CERAMIC	100PF	5%	50V
C273	1-123-359-00	ELECT	47MF	20%	50V	C344	1-123-379-00	ELECT	0.47MF	20%	50V
C274	1-123-364-00	ELECT	1000MF	20%	50V	C346	1-123-333-00	ELECT	100MF	20%	16V
C276	1-123-359-00	ELECT	47MF	20%	50V	C347	1-108-622-91	MYLAR	0.0047MF	10%	100V
C277	1-108-603-00	MYLAR	0.1MF	5%	50V	C348	1-123-379-00	ELECT	0.47MF	20%	50V
C278	1-123-349-00	ELECT	1000MF	20%	35V	C501	1-108-630-91	MYLAR	0.022MF	10%	100V
C279	1-123-343-00	ELECT	33MF	20%	25V	C502	1-136-171-00	FILM	0.33MF	5%	50V
C280	1-123-349-00	ELECT	1000MF	20%	35V	C503	1-136-171-00	FILM	0.33MF	5%	50V
C281	1-123-360-00	ELECT	100MF	20%	50V	C504	1-102-108-00	CERAMIC	150PF	10%	50V
C282	1-101-005-00	CERAMIC	0.022MF		50V	C505	1-123-380-00	ELECT	1MF	20%	50V
C283	1-101-005-00	CERAMIC	0.022MF		50V	C506	1-123-330-00	ELECT	22MF	20%	16V
C284	1-102-106-00	CERAMIC	100PF	10%	50V	C507	1-106-224-00	MYLAR	0.15MF	10%	100V
C285	1-102-106-00	CERAMIC	100PF	10%	50V	C508	1-123-356-00	ELECT	10MF	20%	16V
C288	1-108-630-91	MYLAR	0.022MF	10%	100V	C509	1-123-369-00	ELECT	4.7MF	20%	25V
C289	1-108-630-91	MYLAR	0.022MF	10%	100V	C510	1-123-323-00	ELECT	470MF	20%	16V
C290	1-123-343-00	ELECT	33MF	20%	25V	C511	1-123-379-00	ELECT	0.47MF	20%	50V
C291	1-123-343-00	ELECT	33MF	20%	25V	C512	1-106-220-00	MYLAR	0.1MF	10%	100V
C301	1-102-944-00	CERAMIC	7PF	1PF	50V	C513	1-130-023-00	FILM	0.0027MF	5%	50V
C302	1-102-944-00	CERAMIC	7PF	1PF	50V	C514	1-123-332-00	ELECT	47MF	20%	16V
C303	1-102-951-00	CERAMIC	15PF	5%	50V	C515	1-106-220-00	MYLAR	0.1MF	10%	100V
C304	1-102-816-00	CERAMIC	120PF	5%	50V	C516	1-123-357-00	ELECT	22MF	20%	50V
C308	1-123-356-00	ELECT	10MF	20%	16V	C517	1-102-030-00	CERAMIC	330PF	10%	500V
C309	1-123-380-00	ELECT	1MF	20%	50V	C518	1-129-742-00	FILM	0.018MF	10%	400V
C311	1-123-323-00	ELECT	470MF	20%	16V	C519	1-123-931-00	ELECT	3.3MF	20%	160V
C312	1-123-286-00	ELECT	0.33MF	20%	50V	C520	1-106-182-00	MYLAR	0.0027MF	10%	100V
C313	1-123-356-00	ELECT	10MF	20%	25V	C521	1-102-157-00	CERAMIC	560PF	10%	500V
C314	1-123-381-00	ELECT	2.2MF	20%	50V	C522	1-123-318-00	ELECT	33MF	20%	16V
C315	1-123-381-00	ELECT	2.2MF	20%	50V	C523	1-108-431-00	MYLAR	0.068MF	10%	200V
C316	1-108-622-91	MYLAR	0.0047MF	10%	100V	C524	1-123-380-00	ELECT	1MF	20%	50V
C317	1-108-630-91	MYLAR	0.022MF	10%	100V	C525	1-123-362-00	ELECT	330MF	20%	50V
C318	1-131-345-00	TANTALUM	0.47MF	10%	35V	C527	1-123-360-00	ELECT	100MF	20%	50V
C319	1-123-356-00	ELECT	10MF	20%	16V	C528	1-123-321-00	ELECT	220MF	20%	16V
C320	1-123-586-00	ELECT	0.1MF	20%	50V	C529	1-123-333-00	ELECT	100MF	20%	16V
C321	1-131-345-00	TANTALUM	0.47MF	10%	35V	C530	1-106-359-00	MYLAR	0.0047MF	10%	200V
C322	1-131-345-00	TANTALUM	0.47MF	10%	35V	C531	1-123-382-00	ELECT	33MF	20%	50V
C323	1-102-110-00	CERAMIC	220PF	10%	50V	C532	1-106-190-00	MYLAR	0.0056MF	10%	100V
C324	1-102-110-00	CERAMIC	220PF	10%	50V	C533	1-106-200-00	MYLAR	0.015MF	10%	100V
C325	1-136-173-00	FILM	0.47MF	5%	50V	C543	1-123-360-00	ELECT	100MF	20%	50V
C326	1-136-173-00	FILM	0.47MF	5%	50V	C545	1-123-379-00	ELECT	0.47MF	20%	50V

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Ref. No.	Part No.	Description	Remark	Ref. No.	Part No.	Description	Remark	
C551	1-123-322-00	ELECT	330MF	20%	16V	D24	*1-508-784-00	1P PLUG
C552	1-123-333-00	ELECT	100MF	20%	16V	D25	*1-508-784-00	1P PLUG
C553	1-123-333-00	ELECT	100MF	20%	16V	D26	*1-508-784-00	1P PLUG
C591	1-108-434-00	MYLAR	0.12MF	10%	200V	D27	*1-560-290-00	PLUG, CONNECTOR (2.5MM PITCH)
C801	1-123-093-00	ELECT	22MF	20%	160V	D28	*1-508-784-00	1P PLUG
C802	1-102-157-00	CERAMIC	560PF	10%	500V	D30	*1-560-290-00	PLUG, CONNECTOR (2.5MM PITCH)
C803	1-102-327-11	CERAMIC	330PF	15%	1.5KV	DY1	*1-508-765-00	3P PLUG (M)
C804	1-161-754-11	CERAMIC	0.001MF	10%	3KV	DY2	*1-508-765-00	3P PLUG (M)
C805	1-108-423-00	MYLAR	0.015MF	10%	200V	DY3	*1-508-766-00	4P PLUG (M)
C806	1-129-721-00	FILM	0.039MF	10%	630V			
C807	1-136-186-00	FILM	2.4MF	5%	200V			<u>TRIMMER</u>
C808	1-136-116-00	FILM	1MF	5%	200V	CV301	1-141-181-11	CAP, TRIMMER
C809	1-108-845-00	MYLAR	0.047MF	10%	50V			<u>DIODE</u>
C810	1-106-196-00	MYLAR	0.01MF	10%	100V			
C811	1-106-373-00	MYLAR	0.018MF	10%	200V	D001	8-719-911-19	DIODE 1SS119
C812	1-102-223-00	CERAMIC	0.0047MF	10%	2KV	D002	8-719-911-19	DIODE 1SS119
C813	1-106-220-00	MYLAR	0.1MF	10%	100V	D004	8-719-911-19	DIODE 1SS119
C814	1-123-949-51	ELECT	33MF	20%	250V	D005	8-759-157-40	IC UPC574J
C815	1-123-362-00	ELECT	330MF	20%	50V	D006	8-719-101-02	DIODE RD30E-B4
C816	1-102-030-00	CERAMIC	330PF	10%	500V	D008	8-719-911-19	DIODE 1SS119
C818	1-130-894-00	FILM	0.022MF	3%	1.2KV	D010	8-719-911-19	DIODE 1SS119
C819	1-129-711-51	FILM	0.0056MF	10%	630V	D061	8-719-100-35	DIODE RD5.6E-B2
C821	1-102-038-00	CERAMIC	0.001MF		500V	D201	8-719-911-19	DIODE 1SS119
C822	1-102-038-00	CERAMIC	0.001MF		500V	D205	8-719-100-44	DIODE RD7.5E-B2
C824	1-108-630-91	MYLAR	0.022MF	10%	100V	D206	8-719-911-19	DIODE 1SS119
C825	1-136-184-00	MYLAR	0.68MF	10%	250V	D212	8-719-911-19	DIODE 1SS119
C828	1-102-114-00	CERAMIC	470PF	10%	50V	D213	8-719-911-19	DIODE 1SS119
						D214	8-719-911-19	DIODE 1SS119
						D215	8-719-911-19	DIODE 1SS119
						D216	8-719-911-19	DIODE 1SS119
						D217	8-719-911-19	DIODE 1SS119
						D218	8-719-911-19	DIODE 1SS119
						D219	8-719-911-19	DIODE 1SS119
						D271	8-719-911-55	DIODE U05G
CN201	1-561-534-00	SOCKET, PIN 21P				D303	8-719-911-19	DIODE 1SS119
CN202	1-536-813-21	TERMINAL BOARD, INPUT/OUTPUT				D304	8-719-911-19	DIODE 1SS119
CN251	1-536-813-21	TERMINAL BOARD, INPUT/OUTPUT				D305	8-719-911-19	DIODE 1SS119
CN252	1-536-813-21	TERMINAL BOARD, INPUT/OUTPUT				D308	8-719-911-19	DIODE 1SS119
D1	*1-560-288-00	PLUG, CONNECTOR (2.5MM PITCH)				D309	8-719-911-19	DIODE 1SS119
D3	*1-564-880-31	PLUG, CONNECTOR 3P				D305	8-719-911-19	DIODE 1SS119
D4	*1-564-885-11	PLUG, CONNECTOR 8P				D307	8-719-911-19	DIODE 1SS119
D5	*1-508-765-00	3P PLUG (M)				D306	8-719-911-19	DIODE 1SS119
D6	*1-560-123-00	PLUG, CONNECTOR (2.5MM) 3P				D309	8-719-911-19	DIODE 1SS119
D7	*1-564-883-11	PLUG, CONNECTOR 6P				D501	8-719-911-19	DIODE 1SS119
D8	*1-564-889-11	PLUG, CONNECTOR 12P				D503	8-719-924-06	DIODE ERC24-06S
D10	*1-508-766-00	4P PLUG (M)				D504	8-719-924-06	DIODE ERC24-06S
D12	*1-508-786-00	2P PLUG (M)				D505	8-719-924-06	DIODE ERC24-06S
D14	*1-564-883-11	PLUG, CONNECTOR 6P				D506	8-719-911-19	DIODE 1SS119
D15	*1-560-290-00	PLUG, CONNECTOR (2.5MM PITCH)				D507	8-719-924-06	DIODE ERC24-06S
D16	*1-560-290-00	PLUG, CONNECTOR (2.5MM PITCH)				D551	8-719-911-19	DIODE 1SS119
D17	*1-560-126-00	PLUG, CONNECTOR (2.5MM PITCH)				D552	8-719-911-19	DIODE 1SS119
D18	*1-560-126-00	PLUG, CONNECTOR (2.5MM) 6P				D553	8-719-924-06	DIODE ERC24-06S
D19	*1-564-346-00	CONNECTOR, BOARD TO BOARD 18P				D554	8-719-924-06	DIODE ERC24-06S
D20	*1-564-346-00	CONNECTOR, BOARD TO BOARD 18P				D555	8-719-911-19	DIODE 1SS119
D21	*1-560-123-00	PLUG, CONNECTOR (2.5MM PITCH)				D801	8-719-900-26	DIODE ERD29-08J
D22	*1-560-127-00	PLUG, CONNECTOR (2.5MM PITCH)						
D23	*1-560-126-00	PLUG, CONNECTOR (2.5MM PITCH)						

The components identified by shading and mark Δ are critical for safety. Replace only with part number specified.

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Ref.No.	Part No.	Description	Remark	Ref.No.	Part No.	Description	Remark
D802	8-719-300-65	DIODE ES1F		Q008	8-729-245-83	TRANSISTOR 2SC2458	
D803	8-719-924-06	DIODE ERC24-06S		Q009	8-729-245-83	TRANSISTOR 2SC2458	
D804	8-719-924-06	DIODE ERC24-06S		Q011	8-729-245-83	TRANSISTOR 2SC2458	
D805	8-719-931-13	DIODE EQB01-13		Q201	8-729-245-83	TRANSISTOR 2SC2458	
D806	8-719-305-15	DIODE GH3F		Q206	8-729-245-83	TRANSISTOR 2SC2458	
D807	8-719-305-15	DIODE GH3F		Q207	8-729-204-83	TRANSISTOR 2SA1048GR	
		<u>DELAY LINE</u>		Q208	8-729-204-83	TRANSISTOR 2SA1048GR	
DL 301	1-415-427-11	DELAY LINE, Y		Q301	8-729-245-83	TRANSISTOR 2SC2458	
DL 302	1-415-122-31	DELAY LINE, 1H (PAL)		Q305	8-729-245-83	TRANSISTOR 2SC2458	
		<u>IC</u>		Q309	8-729-245-83	TRANSISTOR 2SC2458	
IC001	8-759-602-63	IC CX523-113P		Q310	8-729-245-83	TRANSISTOR 2SC2458	
IC002	8-759-600-92	IC M58657P		Q311	8-729-245-83	TRANSISTOR 2SC2458	
IC201	8-759-914-76	IC CX20199		Q312	8-729-245-83	TRANSISTOR 2SC2458	
IC202	8-752-006-10	IC CX20061		Q313	8-729-245-83	TRANSISTOR 2SC2458	
IC251	8-749-943-62	IC STK-4362		Q502	8-729-204-83	TRANSISTOR 2SA1048GR	
		<u>SPRING (L); IC251</u>		Q504	8-729-204-83	TRANSISTOR 2SA1048GR	
IC301	6-066-720-60	IC TDA3562A		Q505	8-729-168-82	TRANSISTOR 2SC2688	
IC302	1-235-534-11	CONTROL MODULE, PICTURE		Q506	8-729-169-02	TRANSISTOR 2SC2690A	
IC551	8-759-915-46	IC TDA2579		Q507	8-729-122-02	TRANSISTOR 2SA1220A	
		<u>*4-368-684-01</u>		Q508	8-729-195-82	TRANSISTOR 2SC2958	
		<u>HEAT SINK, IC; IC551</u>		Q510	8-729-245-83	TRANSISTOR 2SC2458	
		<u>COIL</u>		Q511	8-729-245-83	TRANSISTOR 2SC2458	
L001	1-408-425-00	MICRO INDUCTOR 220UH		Q512	8-729-900-36	TRANSISTOR DTC124ES	
L251	1-459-407-00	COIL, FERRITE CHOKE		Q514	8-729-245-83	TRANSISTOR 2SC2458	
L252	1-459-407-00	COIL, FERRITE CHOKE					
L301	1-404-495-00	COIL		Q551	8-729-177-43	TRANSISTOR 2SD774	
L302	1-408-412-00	MICRO INDUCTOR 18UH		Q552	8-729-374-02	TRANSISTOR 2SB740	
L304	1-408-408-00	MICRO INDUCTOR 8.2UH		Q802	8-729-300-90	TRANSISTOR 2SD1497-06	
L306	1-410-260-11	MICRO INDUCTOR 33UH		4-365-216-00	SPACER, MICA; Q802		
L307	1-410-261-11	MICRO INDUCTOR 5.6UH		*4-368-683-01	SPRING; Q802		
L308	1-408-415-00	MICRO INDUCTOR 33UH					
L310	1-407-705-00	MICRO INDUCTOR 100UH		Q803	8-719-801-06	THYRISTOR S6344G	
					4-365-216-00	SPACER, MICA; Q803	
					*4-368-683-01	SPRING; Q803	
						<u>RESISTOR</u>	
L801	1-407-365-00	COIL, CHOKE		R001	1-247-831-00	CARBON	1K 5% 1/6W
L802	1-459-585-11	COIL (WITH CORE) (DRUM TYPE)		R002	1-247-831-00	CARBON	1K 5% 1/6W
L803	1-459-224-00	HLC		R003	1-247-831-00	CARBON	1K 5% 1/6W
L804	1-421-390-00	COIL, FERRITE (PMC)		R004	1-247-815-00	CARBON	220 5% 1/6W
L805	1-408-239-00	MICRO INDUCTOR 4.7MMH		R005	1-247-815-00	CARBON	220 5% 1/6W
L806	1-421-329-00	COIL, CHOKE		R006	1-247-815-00	CARBON	220 5% 1/6W
L808	1-407-365-00	COIL, CHOKE		R007	1-247-815-00	CARBON	220 5% 1/6W
L809	1-437-090-00	HOT		R008	1-247-815-00	CARBON	220 5% 1/6W
L810	1-407-365-00	COIL, CHOKE		R009	1-247-815-00	CARBON	220 5% 1/6W
L811	1-459-074-00	COIL, DUST CORE 6.8MMH(HCC)		R010	1-247-815-00	CARBON	220 5% 1/6W
L891	1-459-338-00	COIL, VAR, FERRITE (PAC)		R011	1-247-815-00	CARBON	220 5% 1/6W
		<u>TRANSISTOR</u>		R012	1-247-799-00	CARBON	47 5% 1/6W
Q001	8-729-204-83	TRANSISTOR 2SA1048GR		R013	1-247-815-00	CARBON	220 5% 1/6W
Q003	8-729-245-83	TRANSISTOR 2SC2458		R014	1-247-847-00	CARBON	4.7K 5% 1/6W
Q004	8-729-245-83	TRANSISTOR 2SC2458		R015	1-247-847-00	CARBON	4.7K 5% 1/6W
Q006	8-729-245-83	TRANSISTOR 2SC2458		R016	1-247-721-11	CARBON	4.7K 5% 1/4W
Q007	8-729-603-50	TRANSISTOR 2SC403SP		R017	1-247-713-11	CARBON	1K 5% 1/4W
				R018	1-247-831-00	CARBON	1K 5% 1/6W

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Ref. No.	Part No.	Description	Remark	Ref. No.	Part No.	Description	Remark
R021	1-247-859-00	CARBON	15K 5% 1/6W	R221	1-247-708-11	CARBON	470 5% 1/4W
R022	1-247-859-00	CARBON	15K 5% 1/6W	R222	1-247-873-00	CARBON	56K 5% 1/6W
R023	1-247-807-00	CARBON	100 5% 1/6W	R228	1-247-873-00	CARBON	56K 5% 1/6W
R024	1-247-831-00	CARBON	1K 5% 1/6W	R229	1-247-823-00	CARBON	470 5% 1/6W
R025	1-247-863-00	CARBON	22K 5% 1/6W	R230	1-247-831-00	CARBON	1K 5% 1/6W
R026	1-247-859-00	CARBON	15K 5% 1/6W	R231	1-247-821-00	CARBON	390 5% 1/6W
R027	1-247-708-11	CARBON	470 5% 1/4W	R232	1-247-688-11	CARBON	10 5% 1/4W
R028	1-247-163-00	CARBON	22K 5% 1/4W	R233	1-247-823-00	CARBON	470 5% 1/6W
R029	1-247-863-00	CARBON	22K 5% 1/6W	R234	1-247-877-00	CARBON	82K 5% 1/6W
R030	1-247-163-00	CARBON	22K 5% 1/4W	R235	1-247-903-00	CARBON	1M 5% 1/6W
R031	1-247-163-00	CARBON	22K 5% 1/4W	R236	1-249-429-11	CARBON	10K 5% 1/6W
R032	1-247-863-00	CARBON	22K 5% 1/6W	R237	1-249-421-11	CARBON	2.2K 5% 1/6W
R033	1-247-863-00	CARBON	22K 5% 1/6W	R238	1-247-837-00	CARBON	1.8K 5% 1/6W
R034	1-247-863-00	CARBON	22K 5% 1/6W	R239	1-249-421-11	CARBON	2.2K 5% 1/6W
R035	1-247-863-00	CARBON	22K 5% 1/6W	R240	1-249-429-11	CARBON	10K 5% 1/6W
R037	1-247-831-00	CARBON	1K 5% 1/6W	R242	1-249-429-11	CARBON	10K 5% 1/6W
R038	1-247-841-00	CARBON	2.7K 5% 1/6W	R243	1-247-861-00	CARBON	18K 5% 1/6W
R039	1-247-807-00	CARBON	100 5% 1/6W	R244	1-249-460-11	CARBON	15K 5% 1/4W
R040	1-247-863-00	CARBON	22K 5% 1/6W	R245	1-249-437-11	CARBON	47K 5% 1/6W
R041	1-247-867-00	CARBON	33K 5% 1/6W	R247	1-247-137-00	CARBON	1.8K 5% 1/4W
R042	1-247-823-00	CARBON	470 5% 1/6W	R248	1-247-713-11	CARBON	1K 5% 1/4W
R043	1-247-823-00	CARBON	470 5% 1/6W	R249	1-247-137-00	CARBON	1.8K 5% 1/4W
R044	1-247-831-00	CARBON	1K 5% 1/6W	R251	1-247-807-00	CARBON	100 5% 1/6W
R045	1-247-713-11	CARBON	1K 5% 1/4W	R252	1-247-807-00	CARBON	100 5% 1/6W
R046	1-247-847-00	CARBON	4.7K 5% 1/6W	R253	1-247-807-00	CARBON	100 5% 1/6W
R047	1-247-807-00	CARBON	100 5% 1/6W	R254	1-247-807-00	CARBON	100 5% 1/6W
R048	1-249-437-11	CARBON	47K 5% 1/6W	R255	1-247-143-00	CARBON	3.3K 5% 1/4W
R049	1-216-464-11	METAL OXIDE	18K 5% 2W F	R256	1-247-143-00	CARBON	3.3K 5% 1/4W
R050	1-217-387-00	FUSIBLE	10 5% 1/4W F	R257	1-247-104-00	CARBON	75 5% 1/4W
R052	1-247-713-11	CARBON	1K 5% 1/4W	R278	1-217-387-00	FUSIBLE	10 5% 1/4W F
R053	1-247-883-00	CARBON	150K 5% 1/6W	R279	1-217-387-00	FUSIBLE	10 5% 1/4W F
R054	1-247-815-00	CARBON	220 5% 1/6W	R280	1-247-879-00	CARBON	100K 5% 1/6W
R056	1-247-859-00	CARBON	15K 5% 1/6W	R281	1-247-849-00	CARBON	5.6K 5% 1/6W
R057	1-249-429-11	CARBON	10K 5% 1/6W	R282	1-247-847-00	CARBON	4.7K 5% 1/6W
R060	1-247-825-00	CARBON	560 5% 1/6W	R283	1-247-713-11	CARBON	1K 5% 1/4W
R201	1-247-125-00	CARBON	560 5% 1/4W	R284	1-247-107-00	CARBON	100 5% 1/4W F
R202	1-247-125-00	CARBON	560 5% 1/4W	R285	1-247-847-00	CARBON	4.7K 5% 1/6W
R203	1-247-721-11	CARBON	4.7K 5% 1/4W	R286	1-247-849-00	CARBON	5.6K 5% 1/6W
R204	1-247-721-11	CARBON	4.7K 5% 1/4W	R287	1-247-879-00	CARBON	100K 5% 1/6W
R205	1-247-153-00	CARBON	8.2K 5% 1/4W	R288	1-247-881-00	CARBON	120K 5% 1/6W
R206	1-247-869-00	CARBON	39K 5% 1/6W	R289	1-249-437-11	CARBON	47K 5% 1/6W
R207	1-247-143-00	CARBON	3.3K 5% 1/4W	R297	1-247-823-00	CARBON	470 5% 1/6W
R208	1-247-843-00	CARBON	3.3K 5% 1/6W	R298	1-247-823-00	CARBON	470 5% 1/6W
R209	1-249-429-11	CARBON	10K 5% 1/6W	R301	1-247-135-00	CARBON	1.5K 5% 1/4W
R210	1-249-429-11	CARBON	10K 5% 1/6W	R302	1-249-419-11	CARBON	1.5K 5% 1/6W
R211	1-247-135-00	CARBON	1.5K 5% 1/4W	R303	1-247-816-00	CARBON	240 5% 1/6W
R213	1-247-895-00	CARBON	470K 5% 1/6W	R304	1-249-429-11	CARBON	10K 5% 1/6W
R214	1-249-419-11	CARBON	1.5K 5% 1/6W	R305	1-247-823-00	CARBON	470 5% 1/6W
R216	1-249-429-11	CARBON	10K 5% 1/6W	R306	1-247-823-00	CARBON	470 5% 1/6W
R217	1-247-831-00	CARBON	1K 5% 1/6W	R307	1-247-827-00	CARBON	680 5% 1/6W
R218	1-247-887-00	CARBON	220K 5% 1/6W	R308	1-247-847-00	CARBON	4.7K 5% 1/6W
R219	1-247-887-00	CARBON	220K 5% 1/6W	R319	1-247-713-11	CARBON	1K 5% 1/4W
R220	1-247-104-00	CARBON	75 5% 1/4W	R323	1-247-837-00	CARBON	1.8K 5% 1/6W

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Ref.No.	Part No.	Description	Remark	Ref.No.	Part No.	Description	Remark
R324	1-247-825-00	CARBON	560 5% 1/6W	R505	1-247-843-00	CARBON	3.3K 5% 1/6W
R325	1-246-463-00	CARBON	390 5% 1/4W	R506	1-247-833-00	CARBON	1.2K 5% 1/6W
R326	1-247-877-00	CARBON	82K 5% 1/6W	R507	1-247-831-00	CARBON	1K 5% 1/6W
R332	1-247-825-00	CARBON	560 5% 1/6W	R508	1-215-469-00	METAL	100K 1% 1/6W
R333	1-247-849-00	CARBON	5.6K 5% 1/6W	R509	1-215-475-00	METAL	180K 1% 1/6W
R334	1-247-151-00	CARBON	6.8K 5% 1/4W	R510	1-247-851-00	CARBON	6.8K 5% 1/6W
R335	1-249-437-11	CARBON	47K 5% 1/6W	R511	1-247-805-00	CARBON	82 5% 1/6W
R336	1-249-429-11	CARBON	10K 5% 1/6W	R512	1-247-829-00	CARBON	820 5% 1/6W
R337	1-249-429-11	CARBON	10K 5% 1/6W	R513	1-247-857-00	CARBON	12K 5% 1/6W
R338	1-247-831-00	CARBON	1K 5% 1/6W	R514	1-247-831-00	CARBON	1K 5% 1/6W
R339	1-247-831-00	CARBON	1K 5% 1/6W	R515	1-247-700-11	CARBON	100 5% 1/4W
R340	1-247-821-00	CARBON	390 5% 1/6W	R516	1-247-717-11	CARBON	2.2K 5% 1/4W
R341	1-247-821-00	CARBON	390 5% 1/6W	R517	1-246-511-00	CARBON	39K 5% 1/4W
R342	1-247-903-00	CARBON	1M 5% 1/6W	R520	1-214-765-00	METAL	33K 1% 1/4W
R343	1-247-879-00	CARBON	100K 5% 1/6W	R521	1-216-464-11	METAL OXIDE	18K 5% 2W F
R344	1-247-149-00	CARBON	5.6K 5% 1/4W	R522	1-247-885-00	CARBON	180K 5% 1/6W
R345	1-247-882-00	CARBON	130K 5% 1/6W	R523	1-247-807-00	CARBON	100 5% 1/8W F
R347	1-247-825-00	CARBON	560 5% 1/6W	R524	1-215-869-11	METAL OXIDE	1K 5% 1W F
R348	1-247-827-00	CARBON	680 5% 1/6W	R525	1-247-795-00	CARBON	33 5% 1/8W F
R349	1-247-849-00	CARBON	5.6K 5% 1/6W	R526	1-249-421-11	CARBON	2.2K 5% 1/6W
R350	1-247-853-00	CARBON	8.2K 5% 1/6W	R527	1-247-783-00	CARBON	10 5% 1/8W F
R351	1-247-863-00	CARBON	22K 5% 1/6W	R528	1-247-161-00	CARBON	18K 5% 1/4W
R352	1-247-837-00	CARBON	1.8K 5% 1/6W	R529	1-247-127-00	CARBON	680 5% 1/4W
R353	1-247-843-00	CARBON	3.3K 5% 1/6W	R530	1-247-892-00	CARBON	360K 5% 1/6W
R354	1-247-883-00	CARBON	150K 5% 1/6W	R531	1-246-463-00	CARBON	390 5% 1/4W
R356	1-247-857-00	CARBON	12K 5% 1/6W	R532	1-247-143-00	CARBON	3.3K 5% 1/4W
R357	1-247-849-00	CARBON	5.6K 5% 1/6W	R533	1-247-859-00	CARBON	15K 5% 1/6W
R358	1-247-861-00	CARBON	18K 5% 1/6W	R534	1-247-787-00	CARBON	15 5% 1/6W
R359	1-247-859-00	CARBON	15K 5% 1/6W	R535	1-247-783-00	CARBON	10 5% 1/6W
R360	1-246-517-00	CARBON	68K 5% 1/4W	R536	1-216-354-11	METAL OXIDE	2.7 5% 1W F
R362	1-247-717-11	CARBON	2.2K 5% 1/4W	R537	1-247-879-00	CARBON	100K 5% 1/6W
R364	1-249-421-11	CARBON	2.2K 5% 1/6W	R538	1-247-753-11	CARBON	1.2K 5% 1/2W F
R365	1-247-857-00	CARBON	12K 5% 1/6W	R539	1-247-877-00	CARBON	82K 5% 1/6W
R366	1-247-717-11	CARBON	2.2K 5% 1/4W	R540	1-246-507-00	CARBON	27K 5% 1/4W
R367	1-247-815-00	CARBON	220 5% 1/6W	R541	1-247-823-00	CARBON	470 5% 1/6W
R368	1-247-815-00	CARBON	220 5% 1/6W	R542	1-216-435-11	METAL OXIDE	2.7K 5% 1W F
R369	1-247-815-00	CARBON	220 5% 1/6W	R544	1-202-467-92	SOLID	3.3M 10% 1/4W
R370	1-247-708-11	CARBON	470 5% 1/4W	R547	1-212-990-00	FUSIBLE	220 5% 1/2W F
R371	1-247-807-00	CARBON	100 5% 1/6W	R548	1-216-350-11	METAL OXIDE	1.2 5% 1W F
R373	1-247-713-11	CARBON	1K 5% 1/4W	R549	1-247-807-00	CARBON	100 5% 1/8W F
R376	1-246-507-00	CARBON	27K 5% 1/4W	R550	1-246-537-00	CARBON	470K 5% 1/4W
R377	1-246-507-00	CARBON	27K 5% 1/4W	R551	1-217-383-00	FUSIBLE	4.7 5% 1/4W F
R378	1-247-861-00	CARBON	18K 5% 1/6W	R552	1-217-383-00	FUSIBLE	4.7 5% 1/4W F
R379	1-247-864-00	CARBON	24K 5% 1/6W	R553	1-210-859-00	CARBON	1.2 5% 1/8W F
R380	1-247-877-00	CARBON	82K 5% 1/6W	R554	1-247-847-00	CARBON	4.7K 5% 1/6W
R381	1-247-831-00	CARBON	1K 5% 1/6W	R555	1-249-421-11	CARBON	2.2K 5% 1/6W
R382	1-247-831-00	CARBON	1K 5% 1/6W	R556	1-216-350-11	METAL OXIDE	1.2 5% 1W F
R383	1-247-831-00	CARBON	1K 5% 1/6W	R557	1-247-815-00	CARBON	220 5% 1/6W
R385	1-247-841-00	CARBON	2.7K 5% 1/6W	R558	1-247-895-00	CARBON	470K 5% 1/6W
R386	1-247-841-00	CARBON	2.7K 5% 1/6W	R559	1-247-143-00	CARBON	3.3K 5% 1/4W
R387	1-247-841-00	CARBON	2.7K 5% 1/6W	R560	1-249-421-11	CARBON	2.2K 5% 1/6W
R390	1-247-173-00	CARBON	56K 5% 1/4W	R571	1-247-895-00	CARBON	470K 5% 1/6W
R504	1-247-841-00	CARBON	2.7K 5% 1/6W	R572	1-247-879-00	CARBON	100K 5% 1/6W

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Ref.No.	Part No.	Description			Remark	Ref.No.	Part No.	Description			Remark
R573	1-247-903-00	CARBON	1M	5%	1/6W			<u>THERMISTOR</u>			
R574	1-247-903-00	CARBON	1M	5%	1/6W			TH501 1-806-213-00 THERMISTOR			
R575	1-247-177-00	CARBON	82K	5%	1/4W			<u>CRYSTAL</u>			
R578	1-247-704-11	CARBON	220	5%	1/4W			X301 1-527-789-00 VINRATOR, CRYSTAL			
R580	1-210-819-00	SOLID	1.8M	10%	1/4W			*****			
R591	1-247-725-11	CARBON	10K	5%	1/4W			*1-615-566-11 J1 BOARD			*****
R592	1-247-153-00	CARBON	8.2K	5%	1/4W			*****			
R593	1-247-847-00	CARBON	4.7K	5%	1/6W			CN901 1-507-657-00 JACK (LARGE TYPE)			
R594	1-247-863-00	CARBON	22K	5%	1/6W			<u>CONNECTOR</u>			
R595	1-247-857-00	CARBON	12K	5%	1/6W			J1 *1-560-126-00 PLUG, CONNECTOR (2.5MM PITCH)			
R596	1-247-843-00	CARBON	3.3K	5%	1/6W			R901 1-247-708-11 CARBON			470 5% 1/4W
R597	1-247-145-00	CARBON	3.9K	5%	1/4W			R902 1-247-708-11 CARBON			470 5% 1/4W
R598	1-247-849-00	CARBON	5.6K	5%	1/6W			*****			
R599	1-247-815-00	CARBON	220	5%	1/6W			*****			
R800	1-215-886-11	METAL OXIDE	100	5%	2W	F		*****			
R801	1-216-345-11	METAL OXIDE	0.47	5%	1W	F		*****			
R802	1-247-137-00	CARBON	1.8K	5%	1/4W			R807 1-202-818-00 SOLID			
R803	1-247-803-00	CARBON	68	5%	1/6W			R808 1-202-826-00 SOLID			
R804	1-215-871-11	METAL OXIDE	2.2K	5%	1W	F		*****			
R805	1-215-866-11	METAL OXIDE	330	5%	1W	F		R809 1-244-927-00 CARBON			
R806	1-202-838-00	SOLID	100K	10%	1/2W			R810 1-210-859-00 CARBON			
R807	1-202-818-00	SOLID	1K	10%	1/2W			R811 1-249-448-11 CARBON			
R808	1-202-826-00	SOLID	4.7K	10%	1/2W			*****			
R809	1-244-927-00	CARBON	180K	5%	1/2W			R812 1-247-270-00 CARBON			
R810	1-210-859-00	CARBON	1.2	5%	1/8W	F		*****			
R811	1-249-448-11	CARBON	1.2	5%	1/4W	F		R813 1-215-883-11 METAL OXIDE			
R812	1-247-270-00	CARBON	18K	5%	1/2W			*****			
R813	1-215-883-11	METAL OXIDE	33	5%	2W	F		C401 1-123-617-00 ELECT			10MF 20% 16V
R814	1-246-537-00	CARBON	470K	5%	1/4W			C403 1-123-616-00 ELECT			4.7MF 20% 25V
R817	1-216-379-11	METAL OXIDE	6.8	5%	2W	F		<u>DIODE</u>			
R820	1-215-884-11	METAL OXIDE	47	5%	2W	F		D401 8-719-911-19 DIODE ISS119			
R825	1-207-678-00	WIREWOUND	10	10%	5W	F		D402 8-719-911-19 DIODE ISS119			
R826	1-207-678-00	WIREWOUND	10	10%	5W	F		D403 8-719-911-19 DIODE ISS119			
<u>VARIABLE RESISTOR</u>											
RV301	1-228-720-00	RES, ADJ, CERAMIC	CARBON	1K				D404 8-719-911-19 DIODE ISS119			
RV302	1-228-724-00	RES, ADJ, CERAMIC	CARBON	10K				D405 8-719-911-19 DIODE ISS119			
RV303	1-228-725-00	RES, ADJ, CERAMIC	CARBON	22K				D406 8-719-911-19 DIODE ISS119			
RV501	1-226-776-00	RES, ADJ, METAL GLAZE	220K					D407 8-719-911-19 DIODE ISS119			
RV502	1-226-775-00	RES, ADJ, METAL GLAZE	100K					D409 8-719-911-19 DIODE ISS119			
RV503	1-230-522-11	RES, ADJ, METAL GLAZE	4.7K					<u>CONNECTOR</u>			
RV558	1-228-720-00	RES, ADJ, CERAMIC	CARBON	1K				H4 *1-560-278-00 PLUG, CONNECTOR 9P			
<u>SPARK GAP</u>											
SG801	1-519-063-XX	DISCHARGING GAP						H5 *1-560-278-00 PLUG, CONNECTOR 6P			
<u>TRANSFORMER</u>											
T301	1-426-121-00	DAT						H6 *1-560-278-00 PLUG, CONNECTOR 8P			
T801	1-437-090-00	HDT						<u>RESISTOR</u>			
T802	1-439-332-41	TRANSFORMER ASSY, FLYBACK						R401 1-247-847-00 CARBON			4.7K 5% 1/6W
T803	1-413-059-00	TRANSFORMER, FERRITE (DFT)						R402 1-247-847-00 CARBON			4.7K 5% 1/6W
T891	1-421-245-11	TRANSFORMER, PZN CUSHION						R405 1-247-849-00 CARBON			5.6K 5% 1/6W
			R406 1-247-849-00 CARBON						R406 1-247-849-00 CARBON		

The components identified by shading and mark  are critical for safety. Replace only with part number specified.

H1 H2

Ref. No.	Part No.	Description	Remark	Ref. No.	Part No.	Description	Remark				
<u>VARIABLE RESISTOR</u>											
RV401	1-228-578-00	RES, VAR, CARBON 10K		RV902	A.1-215-066-21	RES ASSY, HIGH-VOLTAGE					
RV402	1-228-578-00	RES, VAR, CARBON 10K		S901	A.1-554-762-11	SWITCH, PUSH (AC POWER)(1 KEY)					
RV403	1-228-578-00	RES, VAR, CARBON 10K		SP901	1-503-417-11	SPEAKER					
RV404	1-228-578-00	RES, VAR, CARBON 10K		SP902	1-503-314-11	SPEAKER					
<u>SWITCH</u>											
SW401	1-554-118-00	SWITCH, PUSH (1 KEY)		V901	A.8-736-752-05	CRT (A64JKBOOX)					
SW407	1-553-329-00	SWITCH, PUSH (MONO KEY)		*****							
SW408	1-553-329-00	SWITCH, PUSH (MONO KEY)		<u>ACCESSORIES AND PACKING MATERIALS</u>							
SW411	1-553-329-00	SWITCH, PUSH (MONO KEY)		*****							
SW412	1-553-329-00	SWITCH, PUSH (MONO KEY)		<u>Part No.</u> <u>Description</u> <u>Remark</u>							
SW413	1-553-329-00	SWITCH, PUSH (MONO KEY)		A-1470-625-A	COMMANDER ASSY (RM-635)						
SW414	1-553-329-00	SWITCH, PUSH (MONO KEY)		4-337-844-00	BAG, PROTECTION						
SW415	1-553-329-00	SWITCH, PUSH (MONO KEY)		4-373-239-01	CUSHION (UPPER) (ASSY)						
SW416	1-553-329-00	SWITCH, PUSH (MONO KEY)		4-373-243-01	CUSHION (LOWER)						
SW417	1-553-329-00	SWITCH, PUSH (MONO KEY)		4-373-258-01	INDIVIDUAL CARTON						
SW418	1-553-329-00	SWITCH, PUSH (MONO KEY)		4-482-107-11	MANUAL, INSTRUCTION						
SW419	1-553-329-00	SWITCH, PUSH (MONO KEY)		4-491-800-02	SCHEMATIC DIAGRAM						

*1-612-977-21 H2 BOARD											

*4-373-201-01 COVER, LED HOLDER											
*4-373-202-01 HOLDER, LED											
<u>DIODE</u>											
LED401	8-719-908-08	DIODE SL-1274									
	*1-526-638-00	SOCKET, IC (9P); LED401									
LED402	8-719-903-11	DIODE GL-9PR24									
LED404	8-719-903-11	DIODE GL-9PR24									
LED405	8-719-903-11	DIODE GL-9PR24									
LED406	8-719-903-11	DIODE GL-9PR24									
<u>RESISTOR</u>											
R407	1-247-813-00	CARBON	180	5%	1/6W						
R412	1-247-813-00	CARBON	180	5%	1/6W						

<u>MISCELLANEOUS</u>											

A.1-426-041-21 COIL, DEGAUSSING											
A.1-451-156-51 DEFLECTION YOKE (SY-105)											
1-452-032-00 MAGNET, DISK; 10MM Ø											
1-452-094-00 MAGNET, ROTATABLE DISK; 15MM Ø											
1-452-146-21 MAGNET, BMC											
A.1-452-315-11 CRT NECK ASSY (NA303)											
A.1-536-817-31 TERMINAL BOARD ASSY, ANTENNA											
A.1-551-270-31 CORD, POWER											
RV901 A.1-228-544-11 RESISTOR ASSY, HIGH-VOLTAGE											

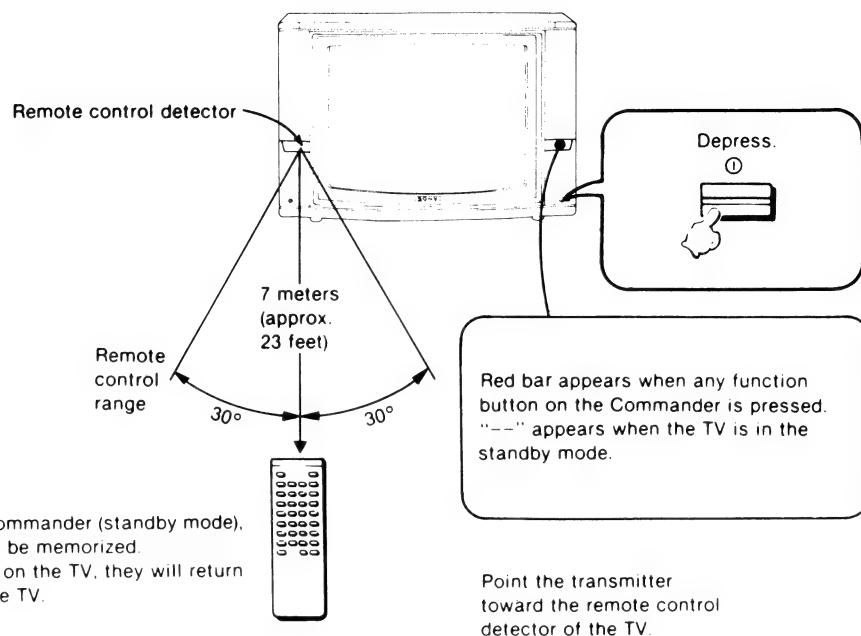
The components identified by shading and mark **A** are critical for safety. Replace only with part number specified.

SECTION 5

REMOTE COMMANDER

5-1. REMOTE TV OPERATION

If the TV is turned off with the Remote Commander (standby mode), the picture, color and sound settings will be memorized.
If the TV is turned off with the $\textcircled{1}$ switch on the TV, they will return to the levels fixed with the controls of the TV.



FUNCTION OF THE BUTTONS ON THE REMOTE COMMANDER

Each button has different functions for normal TV, teletext and VTR operations.

Functions for operating the TV are indicated in **white or black**.

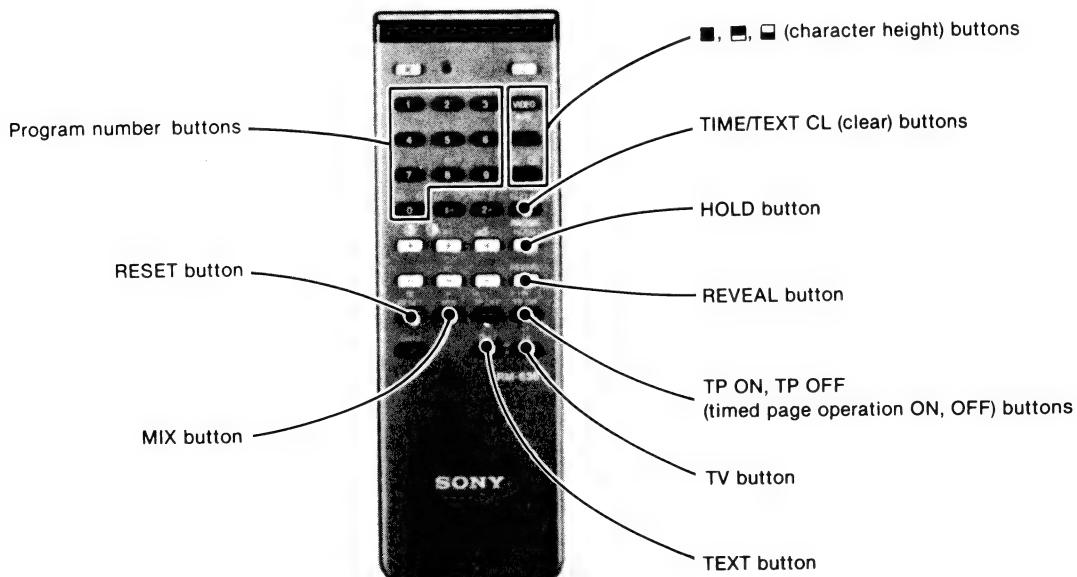
Functions for operating the video tape recorder* are indicated in **brown**.

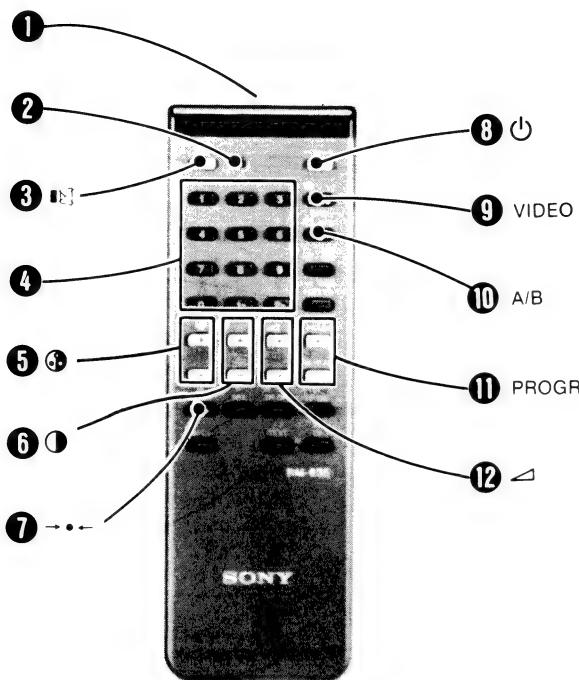
Functions for teletext operation using the optional OPK-203 teletext adaptor are indicated in **green**.

* This Remote Commander can control the Sony SL-F1E combined with the TT-F1 series tuner timer unit, and Sony SL-C9 series.

Buttons used for teletext operations

The following functions are for operating the TV as a teletext display by installing the optional Sony OPK-203 teletext adaptor. For details, please consult a dealer prepared to install a teletext adaptor.



Buttons used for normal TV operation**① Transmitter**

Point towards the remote control detector.

② Pilot lamp

Lights when any button on the Remote Commander is pressed. If the lamp does not light when the button is pressed, battery replacement is required.

③ Mute (sound mute) button

When you want to mute the sound (to answer the telephone, for instance), press this button. To restore the sound, press this button again.

④ Program number buttons

Programs are displayed by pressing the corresponding numbers. For programs 1 through 9, press the appropriate single-digit button.

For programs 10 through 19, press the [1] button (the tens-digit "1" will blink on the program indicator), then the button corresponding to the last digit of the program number (the tens-digit will now stop blinking). For example:

for program 10, press [1] and [0].

for program 11, press [1] and [1].

For programs 20 to 29, press the [2] button and then the single-digit button.

For program 30, press the [0] button.

Note: If you do not press a single-digit button within several seconds after pressing the [1] or [2] button, the previous program setting will be automatically recalled.

⑤ ⑥ (color) buttons

Adjust the color intensity. Press the + button to increase it, or the - button to decrease it.

⑦ ⑧ (picture) buttons

Press the + button to increase the picture contrast, or the - button to decrease it.

⑨ →•← (normal) button

Press this button once instantly returns the color and contrast settings made with the ⑤ and ⑥ buttons on the Commander to the factory preset levels.

⑩ Standby (standby) switch

Turns the TV in standby mode. Program indicator will show "--". To turn on the TV from the standby mode, press a program number button or →•← button on the Commander.

⑪ VIDEO button

This button is not usable for this TV. When this button is pressed, "AU" will momentarily light in the program indicator, but will immediately disappear.

⑫ A/B button

This button is not usable for this TV.

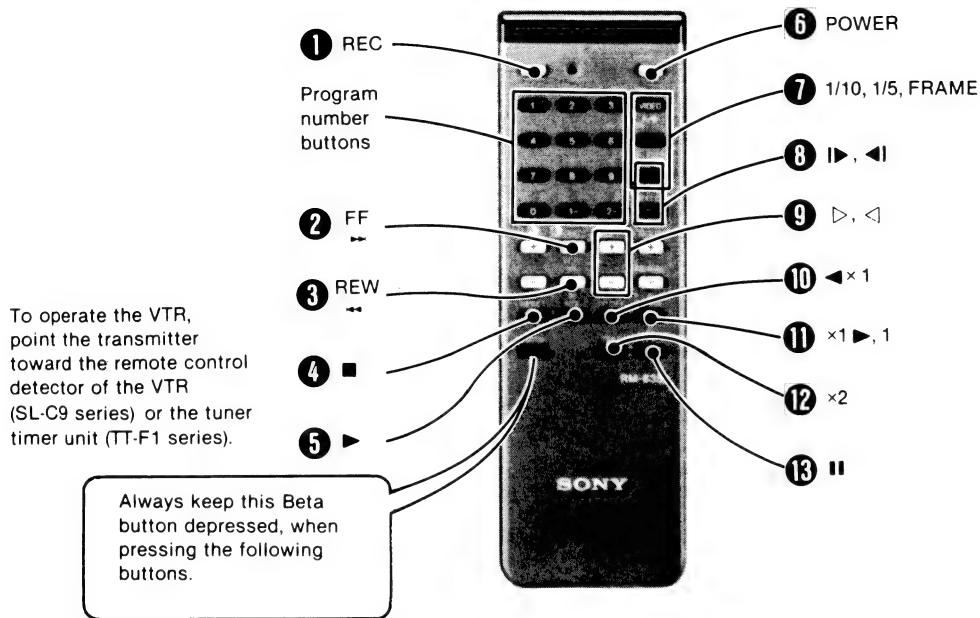
⑬ PROGR (program) buttons

Function the same as the PROGR buttons on the TV.

⑭ ← (volume) buttons

Press the + button to increase the volume, or the - button to decrease it.

Buttons used for VTR operations



Buttons which have the same functions for both SL-C9 series and SL-F1E

① REC (record) button

Press to start recording.

② FF (fast-forward) button

Press to advance the tape rapidly. This button is also used for the forward picture-search operation.

③ REW (rewind) button

Press to rewind the tape. This button is also used for the reverse picture-search operation.

④ ■ (stop) button

Press to stop the tape.

⑤ ▶ (play) button

Press to play the tape back.

⑥ POWER switch

Press to turn the video tape recorder (and the tuner timer unit) on or off.

⑪ x2 (double-speed) button

Functions the same as the x2 button on the video tape recorder. Press to obtain a double-speed playback picture.

⑬ II (pause) button

Functions the same as the II PAUSE button on the SL-C9 series and the PAUSE button on the SL-F1E. To release the pause mode, press this button again.

Buttons used for the SL-C9 series

⑦ Speed control buttons (1/10, 1/5, FRAME)

Function the same as the 1/10, 1/5 and FRAME of the SPEED CONTROL buttons on the recorder.

⑨ ▷ (forward) and ◁ (reverse) buttons

Select the direction of the speed control playback. Function the same as the ▷ and ◁ buttons of the SPEED CONTROL buttons on the recorder.

⑩ 1 (normal speed) button

Functions the same as the 1 button of the SPEED CONTROL buttons on the recorder.

Buttons used for the SL-F1E

⑧ ▶ (forward slow motion) and ◁ (reverse slow motion) buttons

Function the same as the ▶ and ◁ SWING SEARCH buttons on the SL-F1E.

⑪ ◁ x 1 (reverse) button and

⑫ x 1 ▶ (forward) button

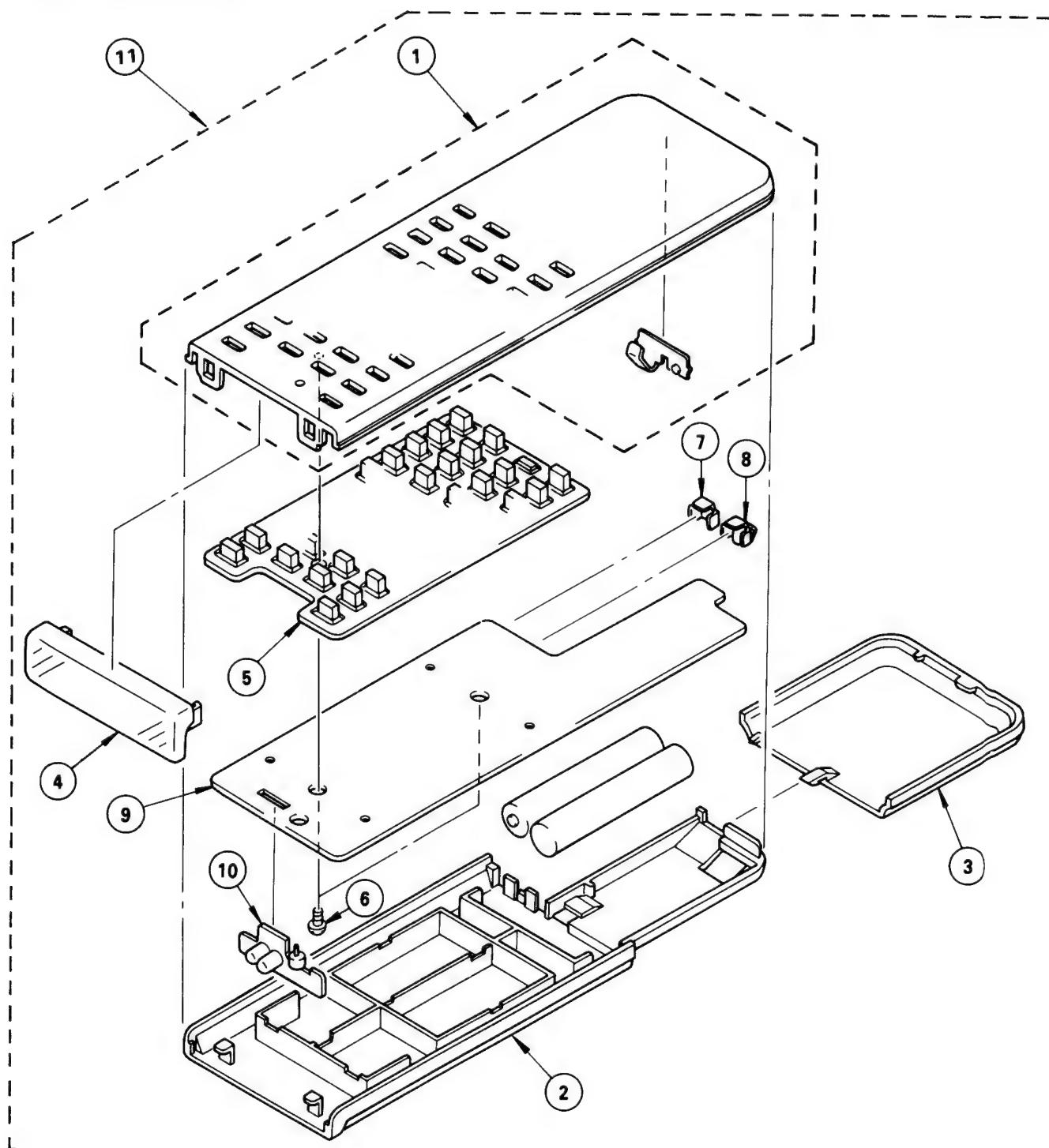
Function the same as the ◁ and ▶ SWING SEARCH buttons on the SL-F1E.

5-2. EXPLODED VIEW

NOTE:

- Items with no part number and no description are not stocked because they are seldom required for routine service.
- The construction parts of an assembled part are indicated with a collation number in the remark column.

- Items marked "*" are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.



No.	Part No.	Description	Remark	No.	Part No.	Description	Remark
1	X-4362-211-0	CASE (UPPER) ASSY, COMMANDER		5	4-356-741-00	SCREW, TAPPING (BIND 2X5)	
2	4-361-948-00	CASE (LOWER), COMMANDER		7	4-348-542-00	TERMINAL (A), BATTERY	
3	4-361-945-00	COVER, BATTERY		8	4-348-543-00	TERMINAL (B), BATTERY	
4	4-361-943-00	PANEL, FRONT, COMMANDER		9	*:1-614-569-11	R1 BOARD	
5	4-361-944-21	SHET, RUBBER		10	*:1-614-570-11	R2 BOARD	
				11	A-1470-625-A	COMMANDER ASSY (RM-635)	1 ~ 10

R1 R2

5-3. ELECTRICAL PARTS LIST

• Items marked " * " are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.

When indicating parts by reference number, please include the board name.

CAPACITORS
 • MF : μ F, PF : $\mu\mu$ F
 RESISTORS
 • All resistors are in ohms
 • F : nonflammable

Ref.No.	Part No.	Description			Remark	
	*1-614-569-11	R1 BOARD	*****			
	4-348-542-00	TERMINAL (A), BATTERY				
	4-348-543-00	TERMINAL (B), BATTERY				
		<u>CAPACITOR</u>				
C1	1-161-315-00	CERAMIC	220PF	10%	50V	
C2	1-161-315-00	CERAMIC	220PF	10%	50V	
		<u>FILTER</u>				
CF1	1-527-476-00	OSCILLATOR, CERAMIC				
		<u>IC</u>				
IC1	8-759-600-07	IC M50119P				
		<u>TRANSISTOR</u>				
Q1	8-729-378-84	TRANSISTOR 2SD788				

	*1-614-570-11	R2 BOARD	*****			
		<u>DIODE</u>				
D1	8-719-900-23	DIODE GL-2AR1				
D2	8-719-107-82	DIODE SE303AY				
		<u>RESISTOR</u>				
R2	1-247-791-00	CARBON	22	5%	1/6W	
R3	1-247-767-00	CARBON	2.2	5%	1/6W	

SONY TRINITRON® COLOR TV

KV-2764EC/RM-635

Belgium Model

Chassis No. SCC-660G-A

RX CHASSIS

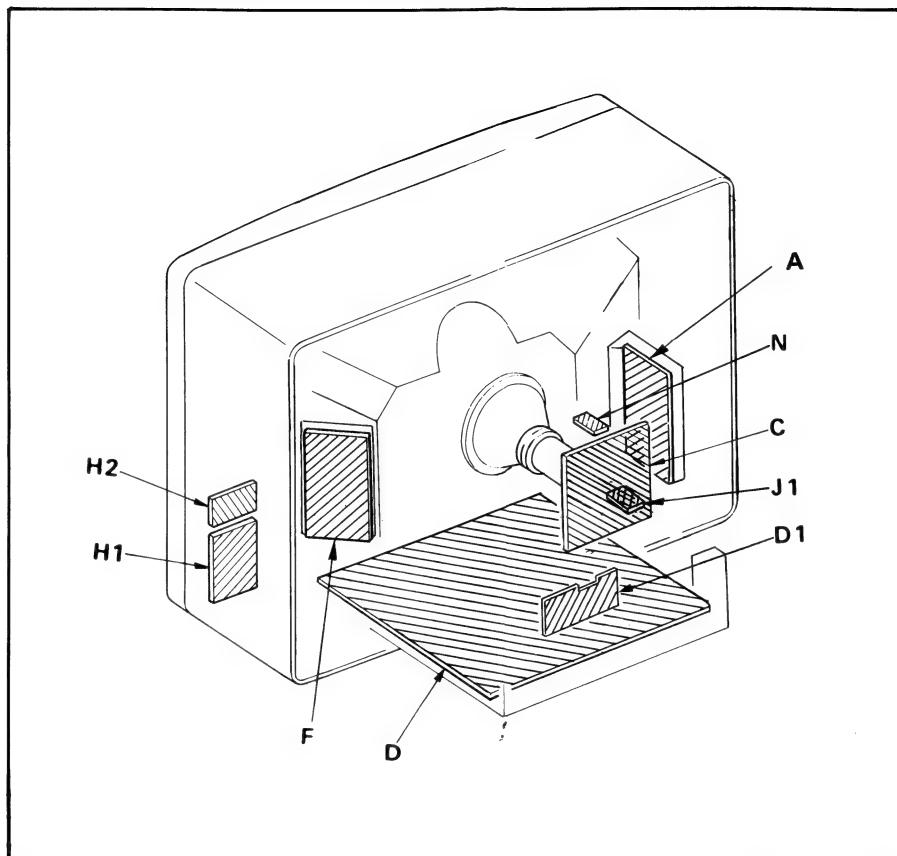
SAFETY-RELATED COMPONENT WARNING !!

COMPONENTS IDENTIFIED BY SHADING AND MARK  ON THE SCHEMATIC DIAGRAMS, EXPLODED VIEWS AND IN THE PARTS LIST ARE CRITICAL TO SAFE OPERATION. REPLACE THESE COMPONENTS WITH SONY PARTS WHOSE PART NUMBERS APPEAR AS SHOWN IN THIS MANUAL OR IN SUPPLEMENTS PUBLISHED BY SONY. CIRCUIT ADJUSTMENTS THAT ARE CRITICAL TO SAFE OPERATION ARE IDENTIFIED IN THIS MANUAL. FOLLOW THESE PROCEDURES WHENEVER CRITICAL COMPONENTS ARE REPLACED OR IMPROPER OPERATION IS SUSPECTED.

Note: The components identified by shading and mark  are critical for safety. Replace only with part number specified.

- All capacitors are in μF unless otherwise noted. p : $\mu\mu\text{F}$. 50WV or less are not indicated except for electrolytics.
- All resistors are in ohms, 1/6W unless otherwise noted. $\text{k}\Omega = 1000\Omega$, $\text{M}\Omega = 1000\text{k}\Omega$
-  : nonflammable resistor.
-  : fusible resistor
- \triangle : internal component.
-  : panel designation.
- All variable and adjustable resistors have characteristic curve B, unless otherwise noted.
- Readings are taken with a color-bar signal input.
- Voltages are dc with respect to ground unless otherwise noted.
- All voltages are in V.
- Readings are taken with a $10\text{M}\Omega$ digital multimeter.
-  : adjustment for repair.
- Voltage variations may be noted due to normal production tolerances.
- --- : B + bus.
- --- : B - bus.
-  : signal path.

CIRCUIT BOARDS LOCATION

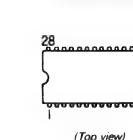


SEMICONDUCTORS

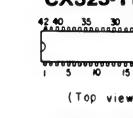
CX20061
CX20106
M54572L



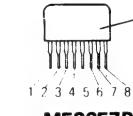
CX20199



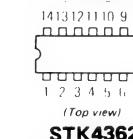
CX523-113P



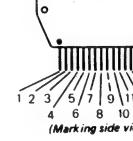
HIC2110



M58657P
TDA4944
 $\mu\text{PC}1394\text{C}$



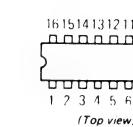
STK4362



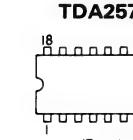
$\mu\text{PC}4558\text{C}$



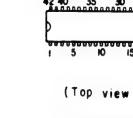
TDA1082
TDA3541



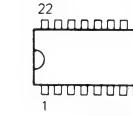
TDA2546
TDA2579



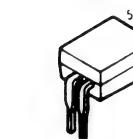
TDA3562A



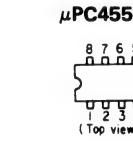
TDA4940



TLP581



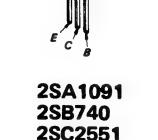
$\mu\text{PC}4558\text{C}$



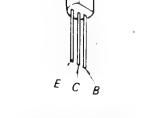
2SA1048-GR
2SC403SP
2SC2458
DTC124ES
DTC144ES



2SC2026-L



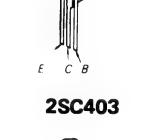
ISS119



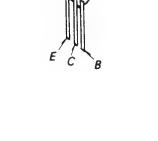
2SC2958
2SD774



EQB01-13



2SD795A



2SD1497-02
2SD1497-06



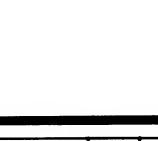
ERD28-08



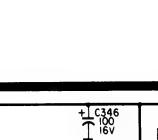
RD128-B2



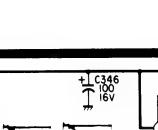
RD138-B2



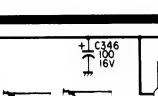
RD308-B4



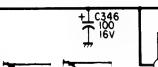
RD5,6-E-N2



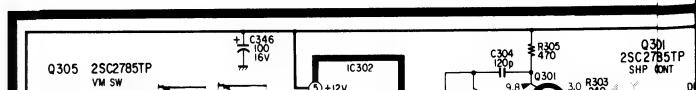
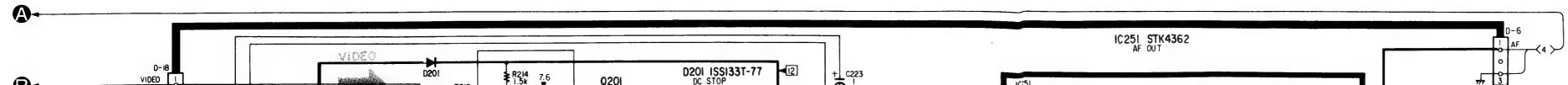
RD6,2E-N2



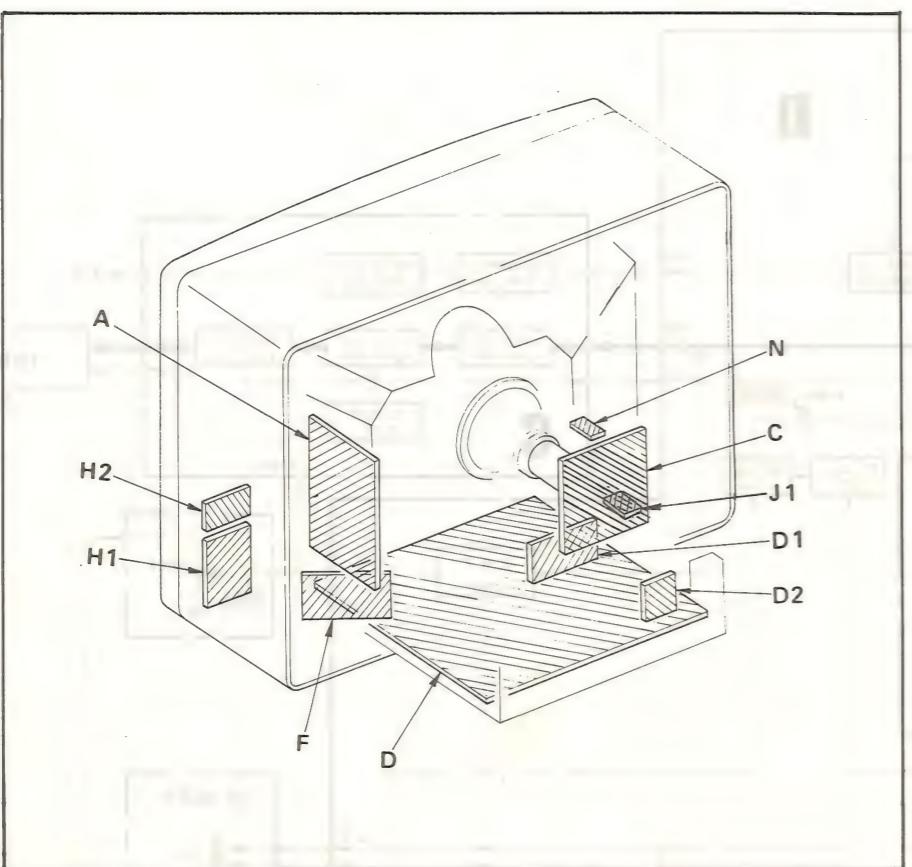
RD6,8E-N3



RD7,5E-B2



5-2. CIRCUIT BOARDS LOCATION

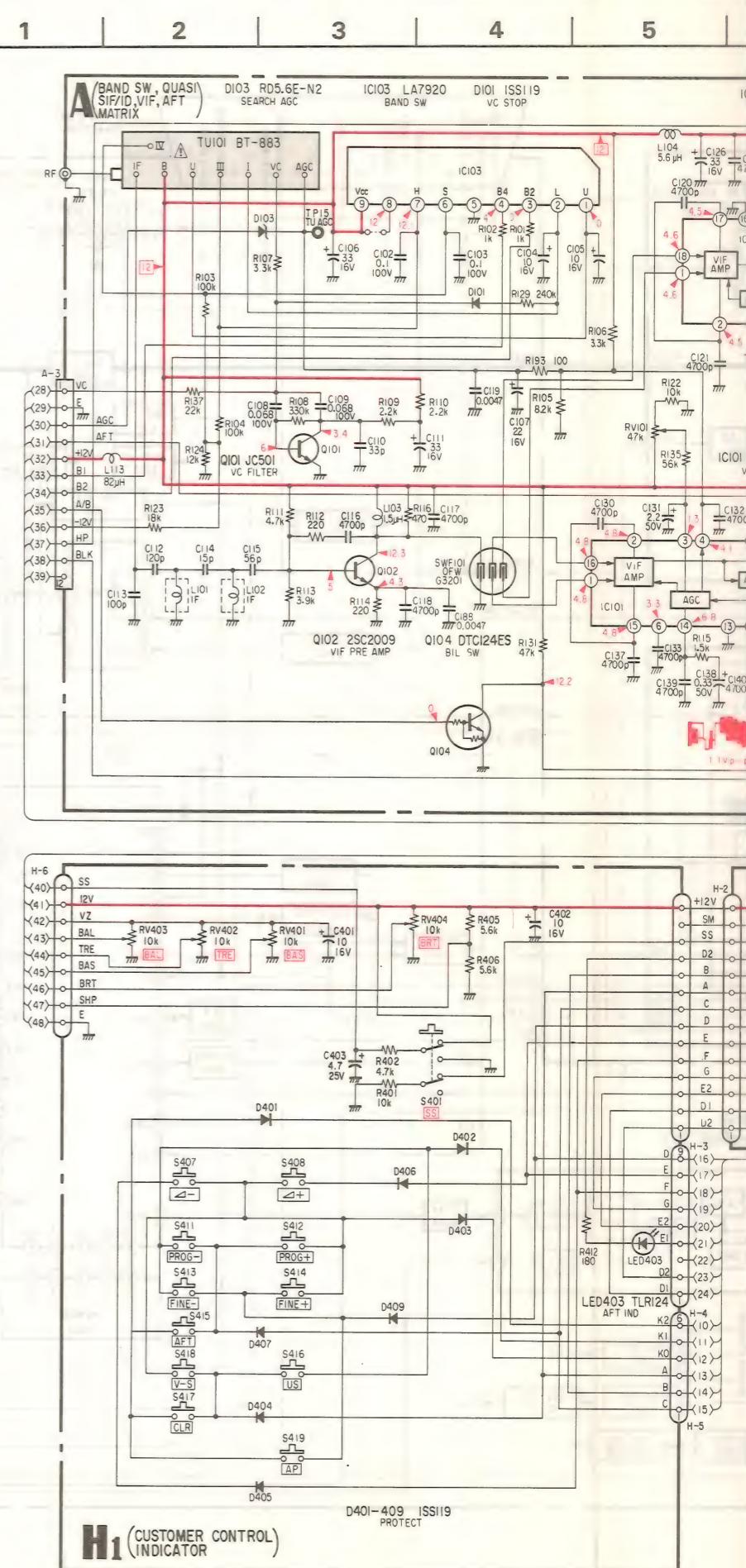


5-3. SCHEMATIC DIAGRAM

Note: The components identified by shading and mark are critical for safety. Replace only with part number specified.

Note:

- All capacitors are in μ F unless otherwise noted. pF: $\mu\mu$ F 50WV or less are not indicated except for electrolytics
- C board and D board resistors are in ohms, $\frac{1}{4}$ W unless otherwise noted, and other boards are in ohms, $\frac{1}{16}$ W unless otherwise noted. k : 1000 Ω ; M : 1000 k Ω
- All variable and adjustable resistors have characteristic curve B, unless otherwise noted.
- : nonflammable resistor.
- : fusible resistor.
- : internal component.
- : adjustment for repair.
- All voltage are in V.
- : B+ bus.
- : B- bus.
- Voltages are dc with respect to ground unless otherwise noted.
- Readings are taken with a 10 M Ω digital multimeter.
- Readings are taken with a color-bar signal input.
- Voltages on A and H₁ boards are taken under conditions below.
 - The channel 2 is selected.
 - VOLUME control is set to no sound position.
 - PICTURE control is set to the first stage.
(The first stage is the condition when the POWER switch sets to ON.)
- Waveform on A board is taken with controls set to the first stage.
- Voltage variations may be noted due to normal production tolerances.

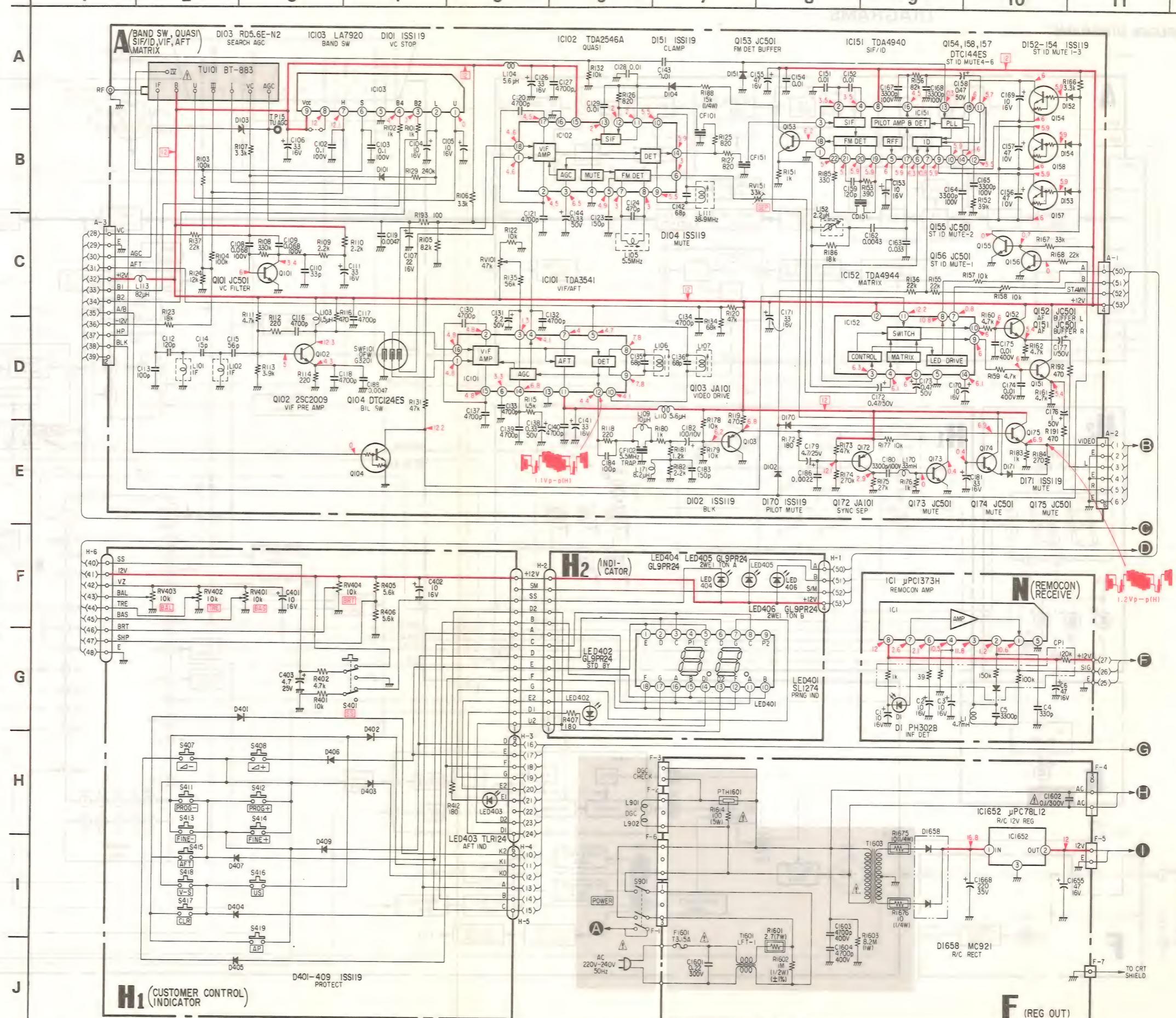


5-3. SCHEMATIC DIAGRAM

Note: The components identified by shading and mark  are critical for safety. Replace only with part number specified.

Note:

- All capacitors are in μF unless otherwise noted. pF : $\mu\mu\text{F}$ 50WV or less are not indicated except for electrolytics
- C board and D board resistors are in ohms, $1/4$ W unless otherwise noted, and other boards are in ohms, $1/6$ W unless otherwise noted. k : $1000\ \Omega$; M : $1000\ \text{k}\Omega$
- All variable and adjustable resistors have characteristic curve B, unless otherwise noted.
-  : nonflammable resistor.
-  : fusible resistor.
-  : internal component.
-  : adjustment for repair.
- All voltage are in V.
-  : B+ bus.
-  : B- bus.
- Voltages are dc with respect to ground unless otherwise noted.
- Readings are taken with a $10\ \text{M}\Omega$ digital multimeter.
- Readings are taken with a color-bar signal input.
- Voltages on A and H₁ boards are taken under conditions below.
 - The channel 2 is selected.
 - VOLUME control is set to no sound position.
 - PICTURE control is set to the first stage.
 - (The first stage is the condition when the POWER switch sets to ON.)
- Waveform on A board is taken with controls set to the first stage.
- Voltage variations may be noted due to normal production tolerances.



A

B

C

D

E

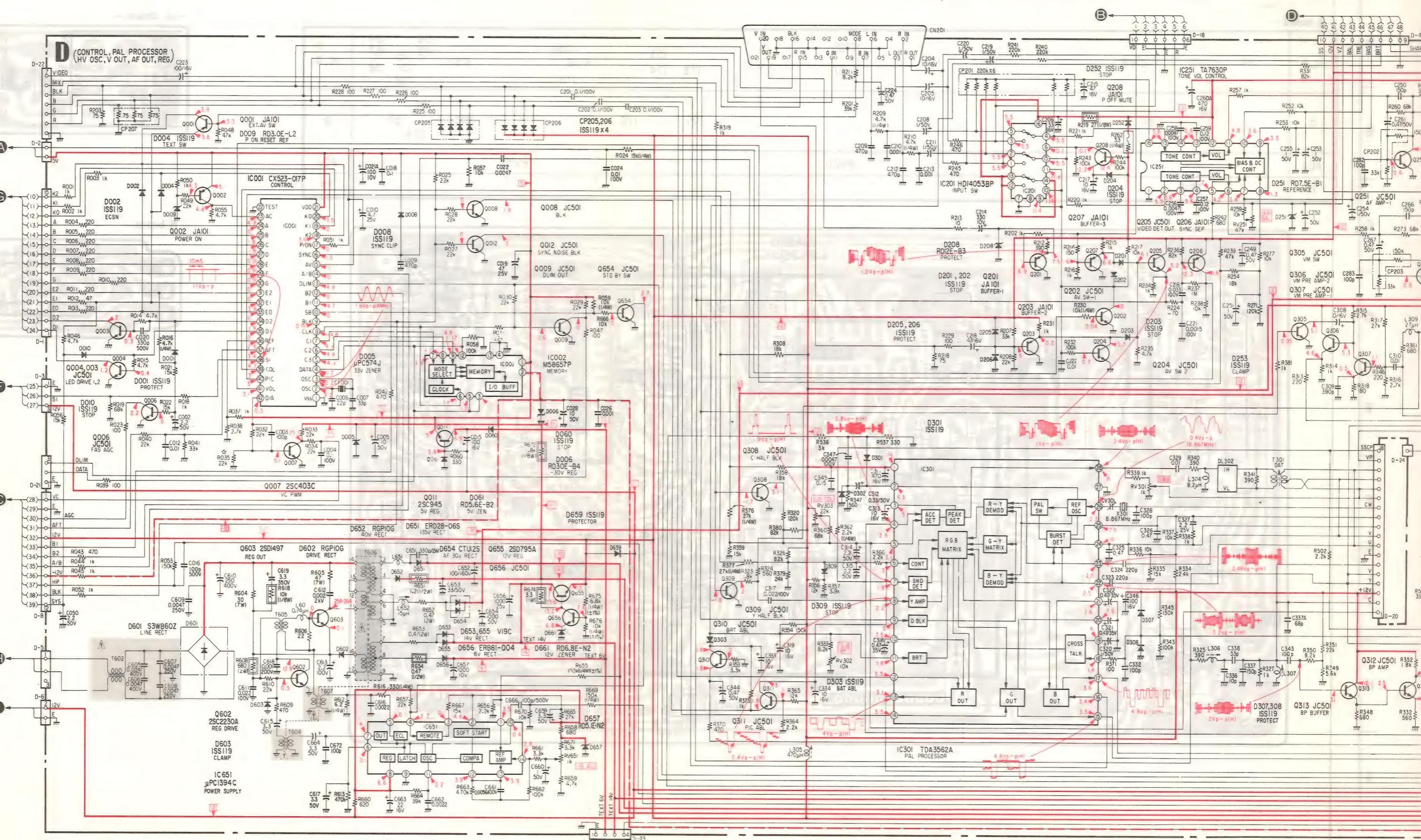
F

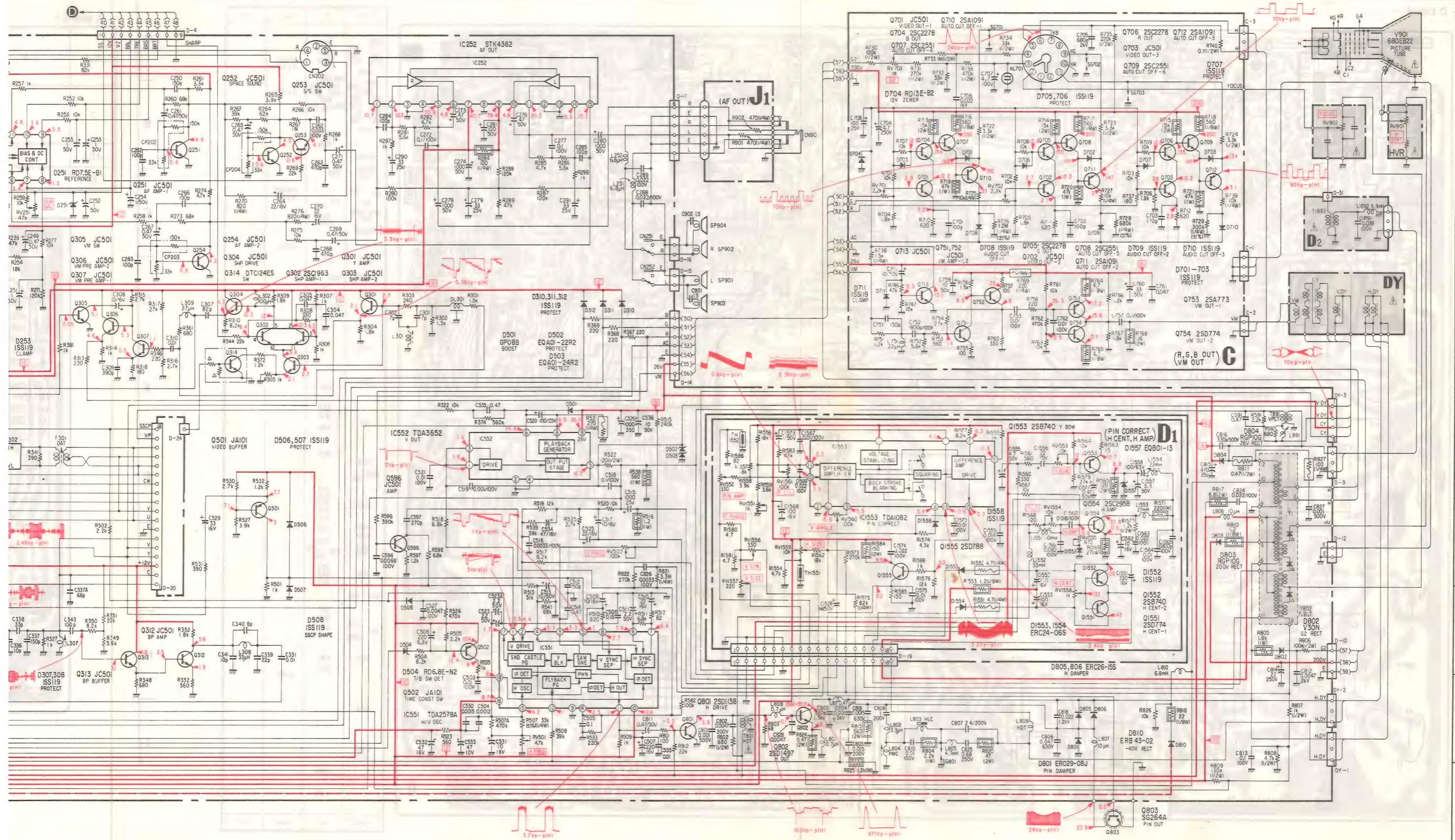
G

H

I

J



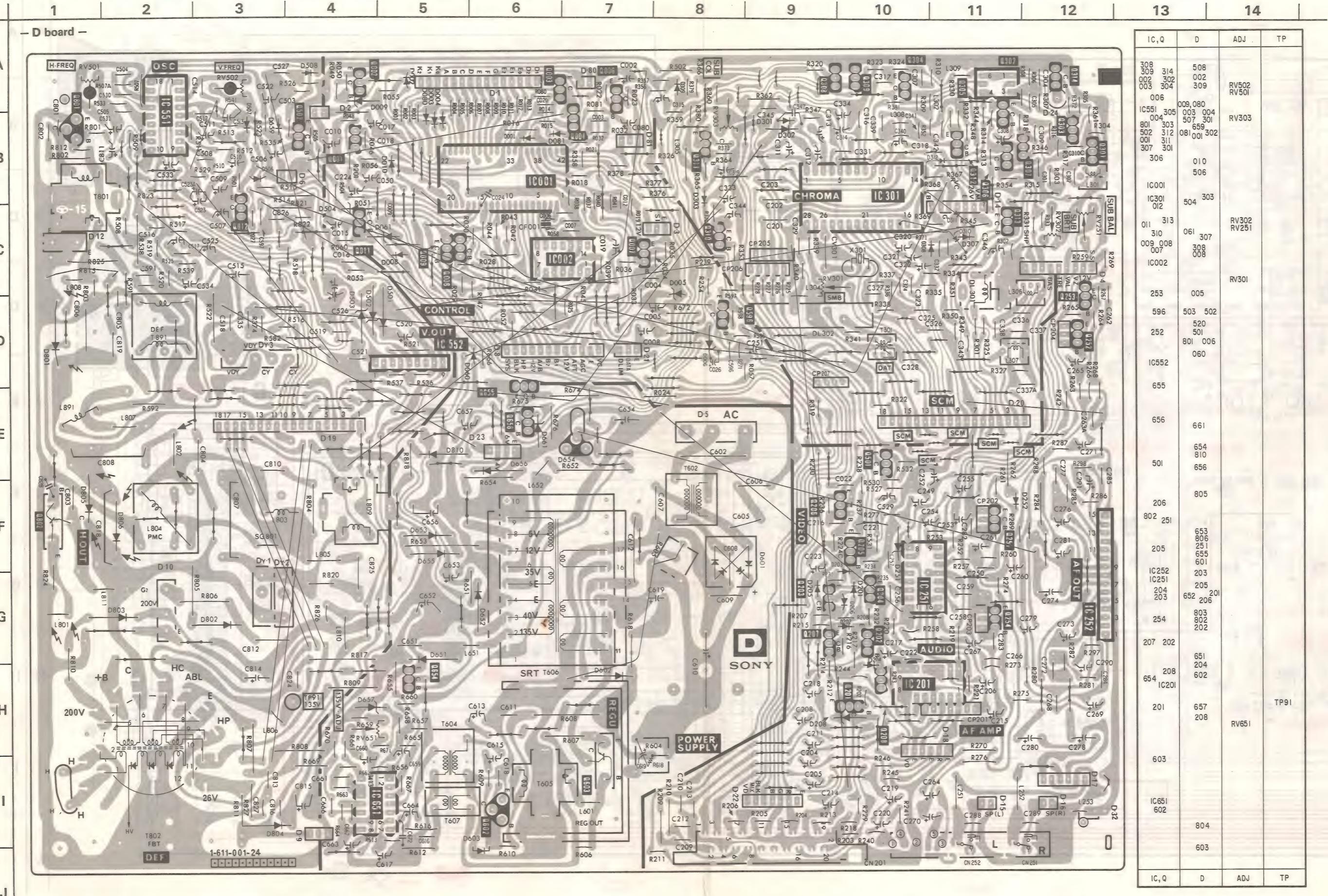


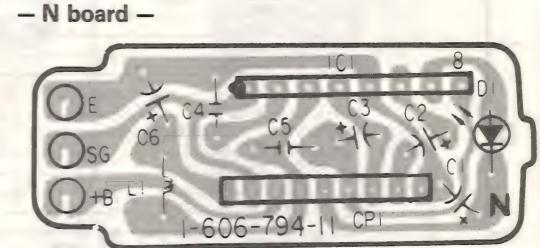
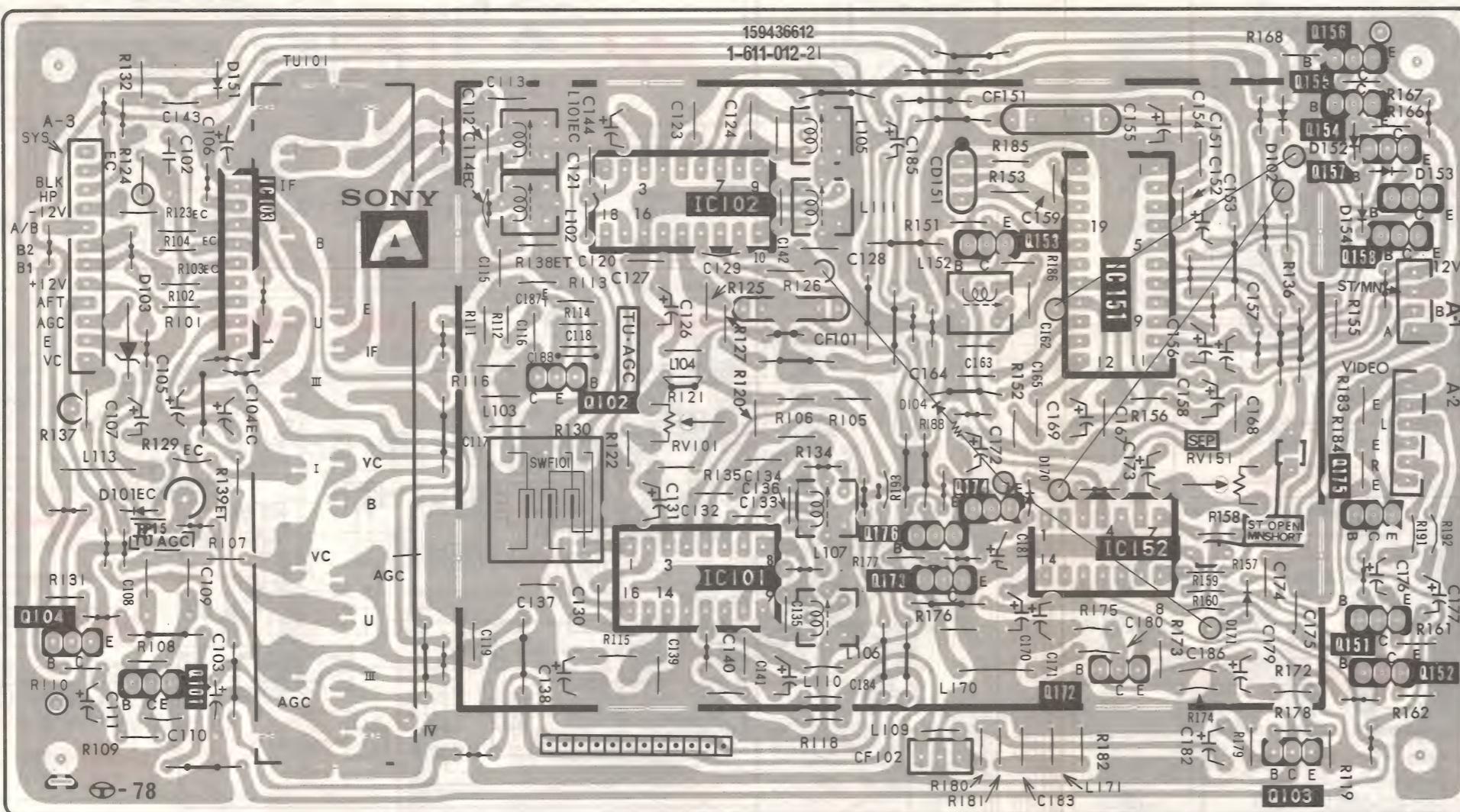
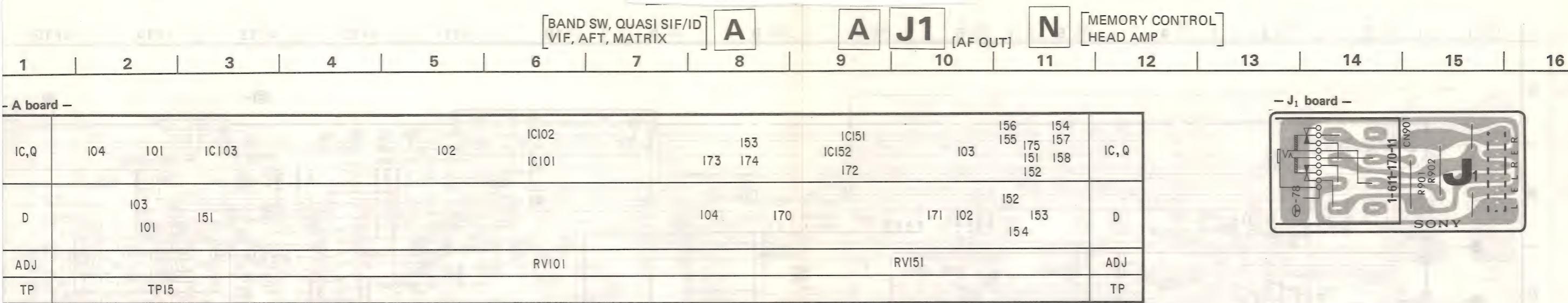
5-4. PRINTED WIRING BOARDS

CONTROL, PAL PROCESSOR
HV OSC, V OUT, AF OUT, REG

D

D





[PIN CORRECT
H CENT, H AMP]

D1

CUSTOMER CONTROL
INDICATOR

H1

H

2 [INDICATOR]

D2

1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 |

A

三

6

□

8

F

6

1

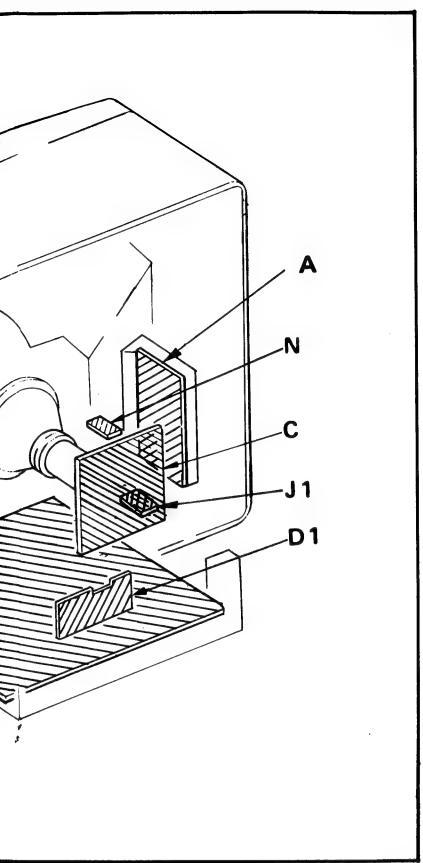
1

– H₁ board –

Digitized by srujanika@gmail.com

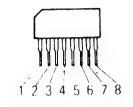
- D₁ board -

SCHEMATIC DIAGRAM

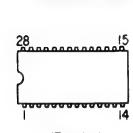


SEMICONDUCTORS

CX20061
CX20106
M54572L



CX20199



CX523-113P



(Top view)

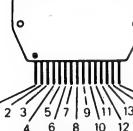
HIC2110



M58657P
TDA4944
 μ PC1394C

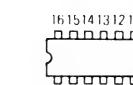


STK4362

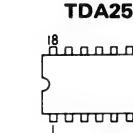


(Marking side view)

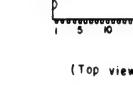
TDA1082
TDA3541



TDA2546
TDA2579

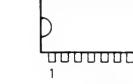


TDA3562A

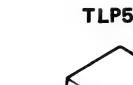


(Top view)

TDA4940

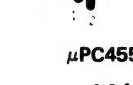


2SA1048-GR
2SC403SP
2SC2458
DTC124ES
DTC144ES



(Top view)

2SC2026-L



(Top view)

ISS119



(Top view)

2SC2958
2SD774



(Top view)

2SA1091
2SB740
2SC2551



(Top view)

2SD795A



(Top view)

2SD1497-02
2SD1497-06



(Top view)

2SD1220A
2SC2611
2SC2688
2SC2690A



(Top view)

TLP581



(Top view)

2SC403



(Top view)

S6344G



(Top view)

ERD29-08



(Top view)

2SD1497-02
2SD1497-06



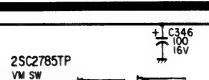
(Top view)

ERD29-08J



(Top view)

PH302B



(Top view)

ISS119



(Top view)

ESIF

cathode

anode

EQBO1-13

cathode

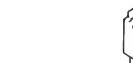
anode

2SD795A



(Top view)

SL1274



(Top view)

GL-9PR24



(Top view)

μ PC574J



(Top view)

PH302B



(Top view)

V19E



(Top view)

S3WB60Z



(Top view)

Marking



(Top view)

2SC2026-L



(Top view)

2SD1497-02



(Top view)

2SD1497-06



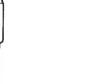
(Top view)

ERD29-08



(Top view)

2SD1497-02



(Top view)

ERD29-08J



(Top view)

PH302B



(Top view)

V19E



(Top view)

S3WB60Z



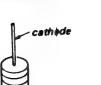
(Top view)

Marking



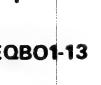
(Top view)

SL1274



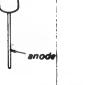
(Top view)

ESIF



(Top view)

EQBO1-13



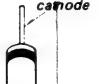
(Top view)

2SD795A



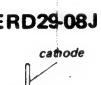
(Top view)

SL1274



(Top view)

GL-9PR24



(Top view)

μ PC574J



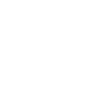
(Top view)

PH302B



(Top view)

V19E



(Top view)

S3WB60Z



(Top view)

Marking



(Top view)

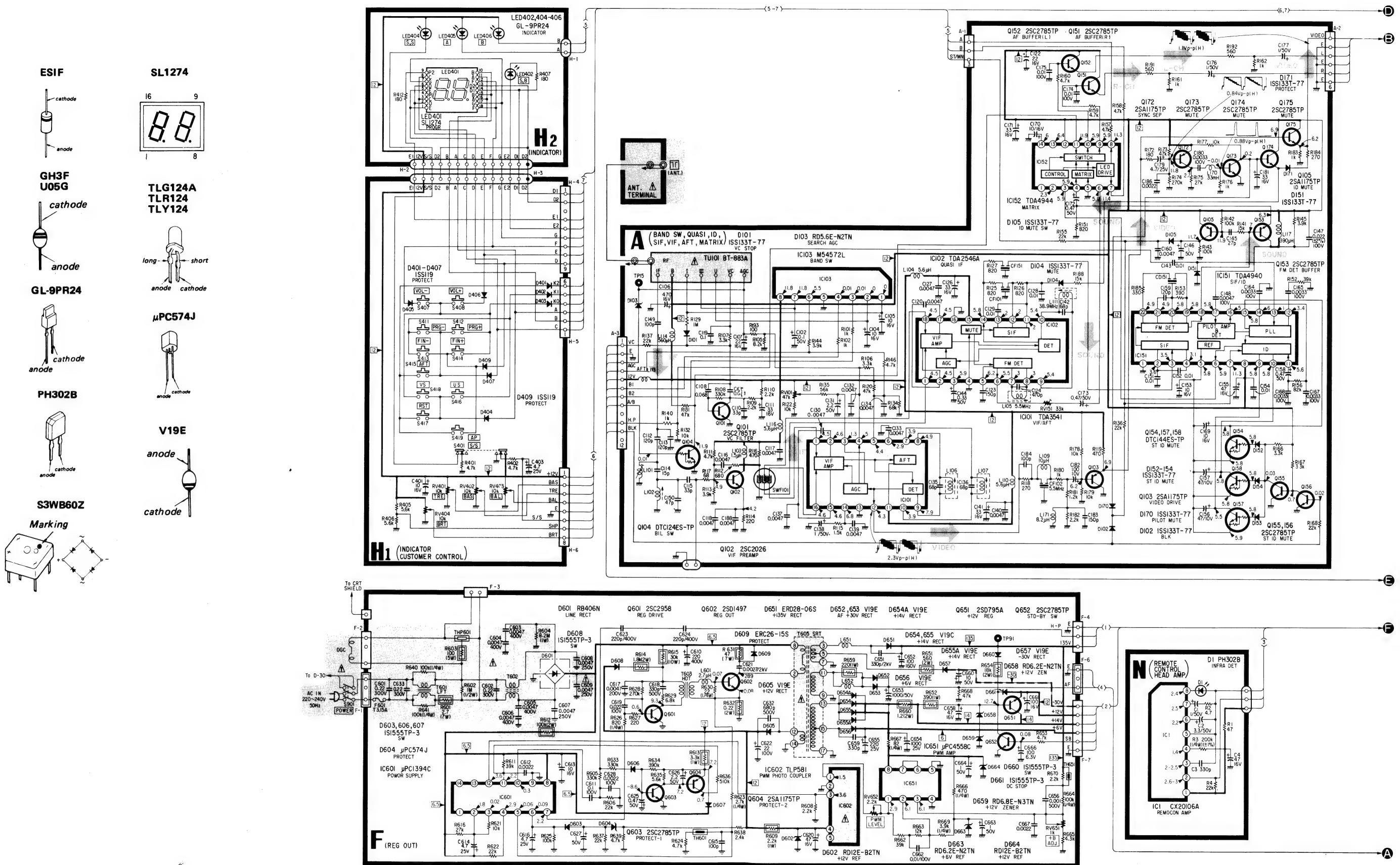
ERD29-08



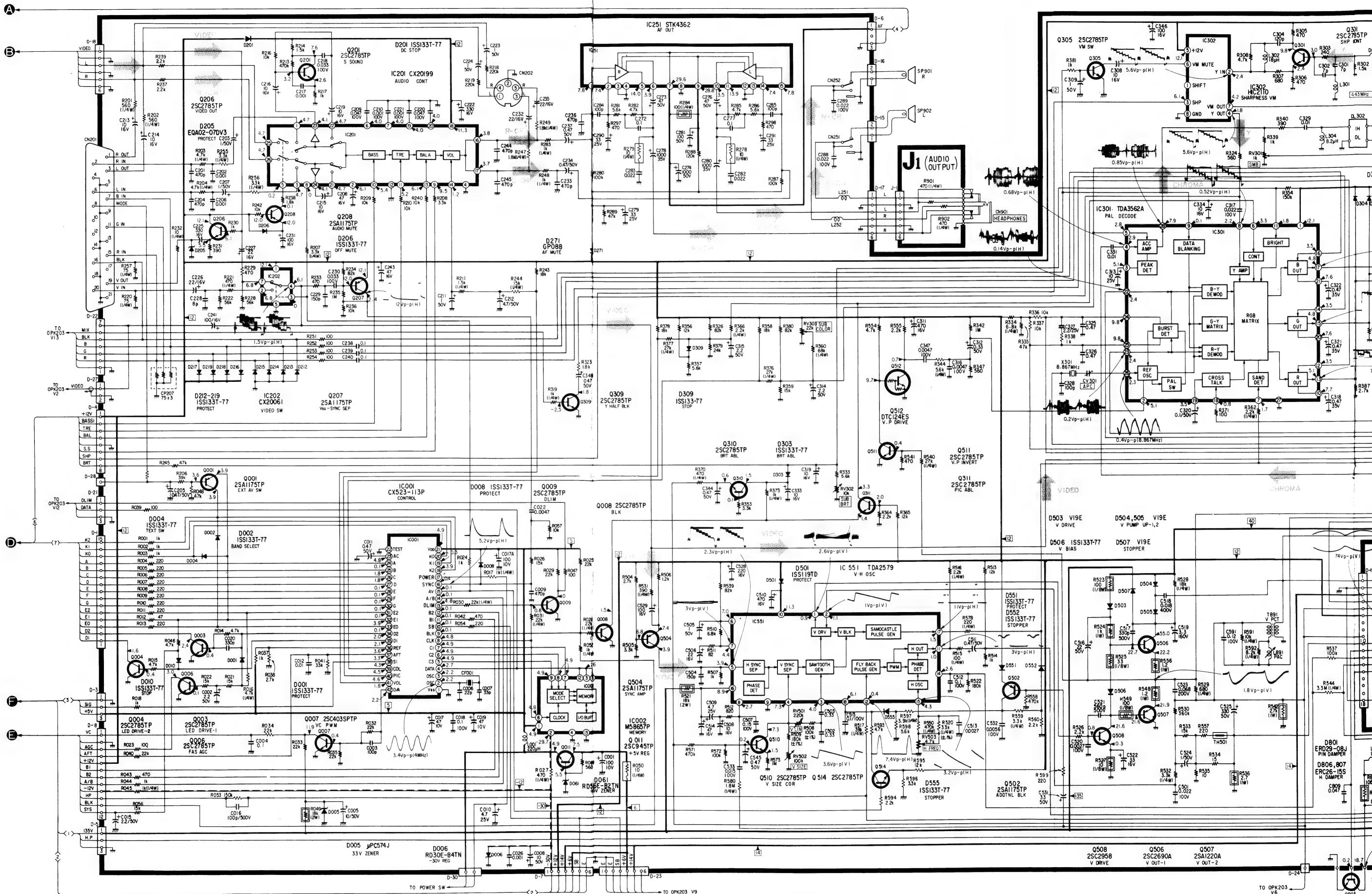
(Top view)

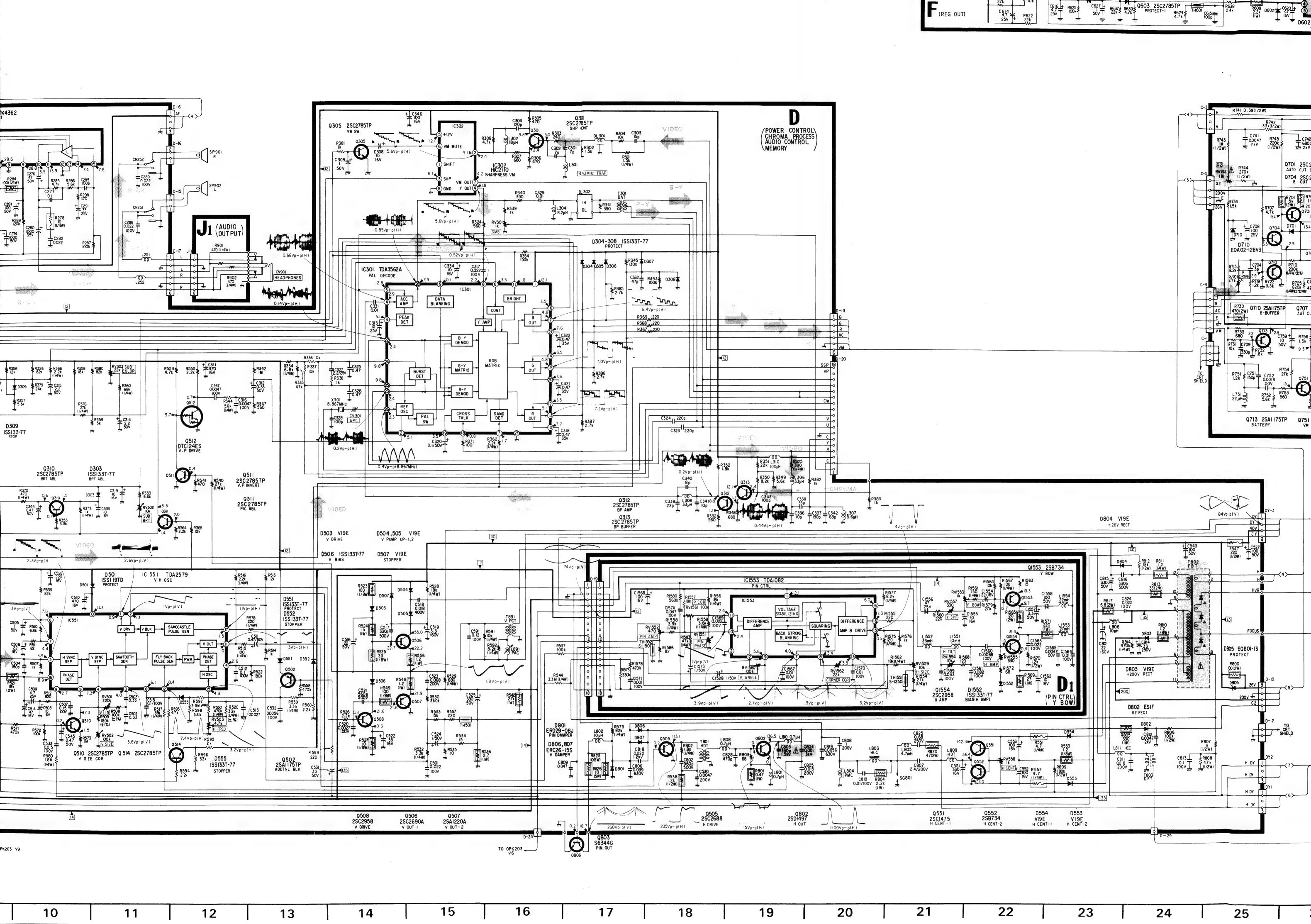
2SD1

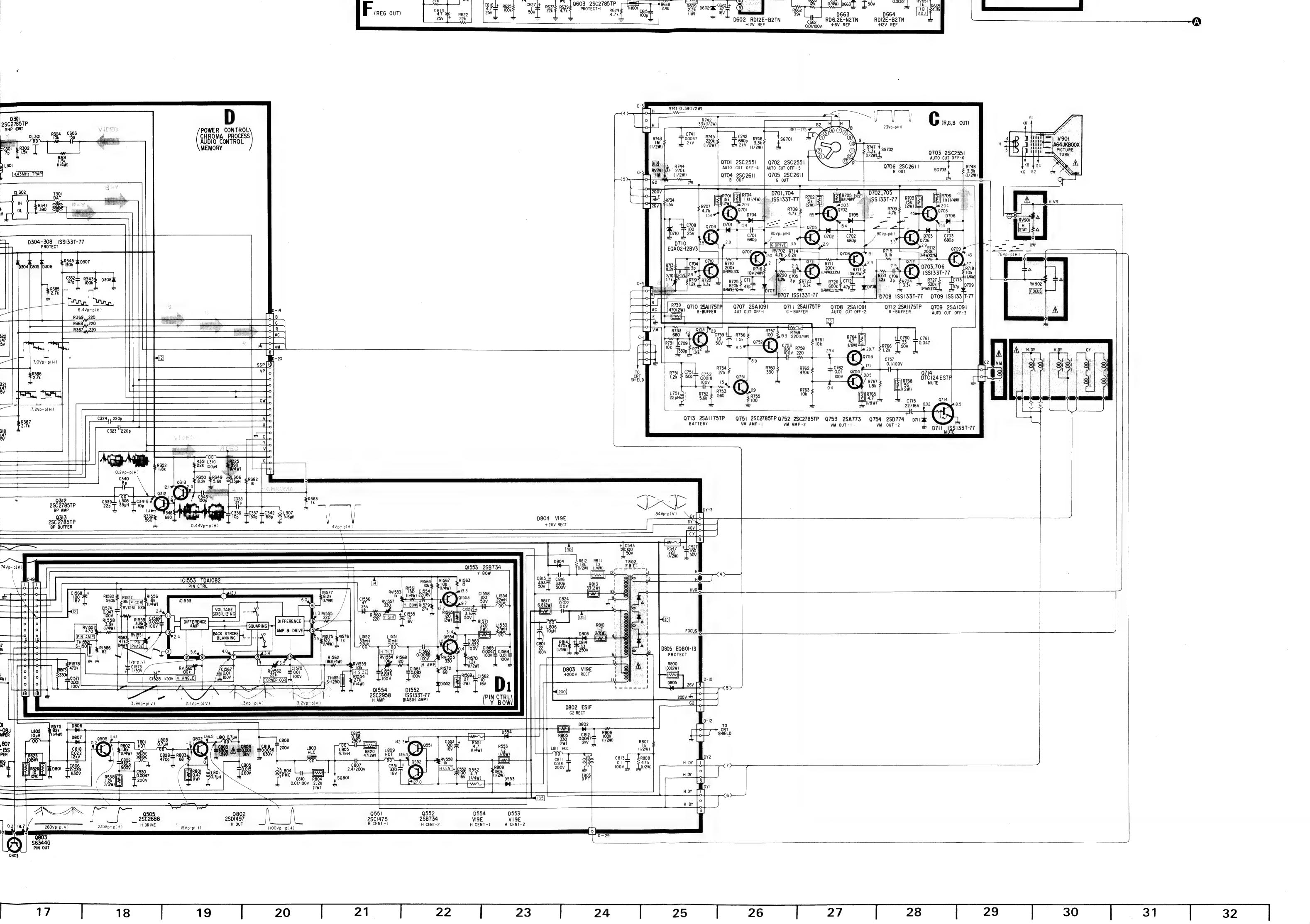
SCHEMATIC DIAGRAM



-  : B – bus.
-  : signal path.



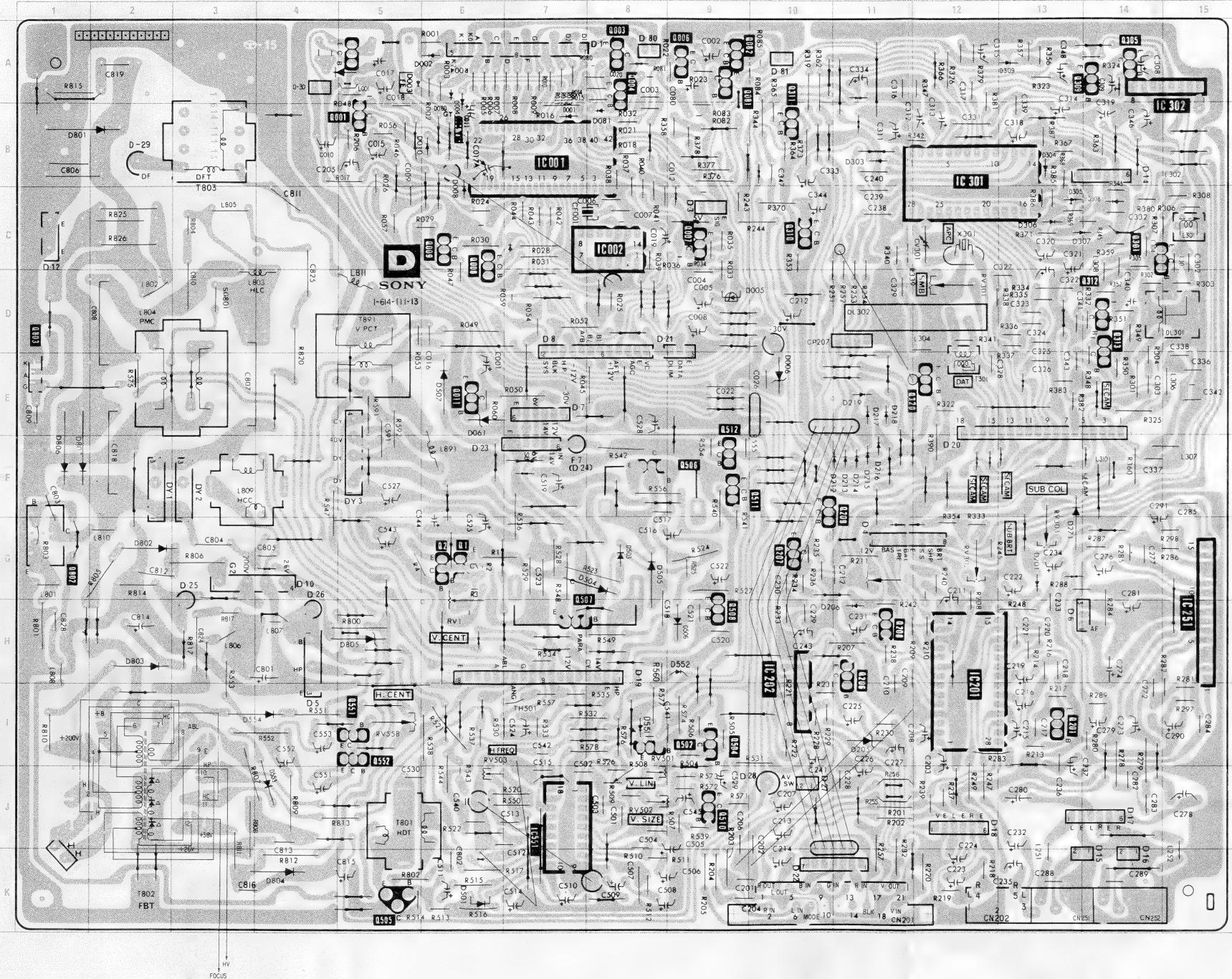




MOUNTING DIAGRAM

Note: All mounting diagrams are viewed from conductor side.

D [POWER CONTROL CHROMA PROCESS]
[AUDIO CONTROL MEMORY]



SUB COLOR ADJUSTMENT

RV303 = G-13

1. Receive a color bar signal.
2. Set the picture control at Norm, COLOR control at minimum and BRIGHTNESS control to Mechanical center.
3. Connect an Oscilloscope at pin (17) of IC301.
4. Adjust RV303 so that same level as shown.

SUB BRIGHT

RV302 = G-12

1. Receive a dot signal.
2. Set the BRIGHTNESS control at mechanical center.
3. Connect an Digital multi-meter at pin (11) of IC301.
4. Adjust to $2.0 \pm 0.2V$ with RV302.

oscilloscope

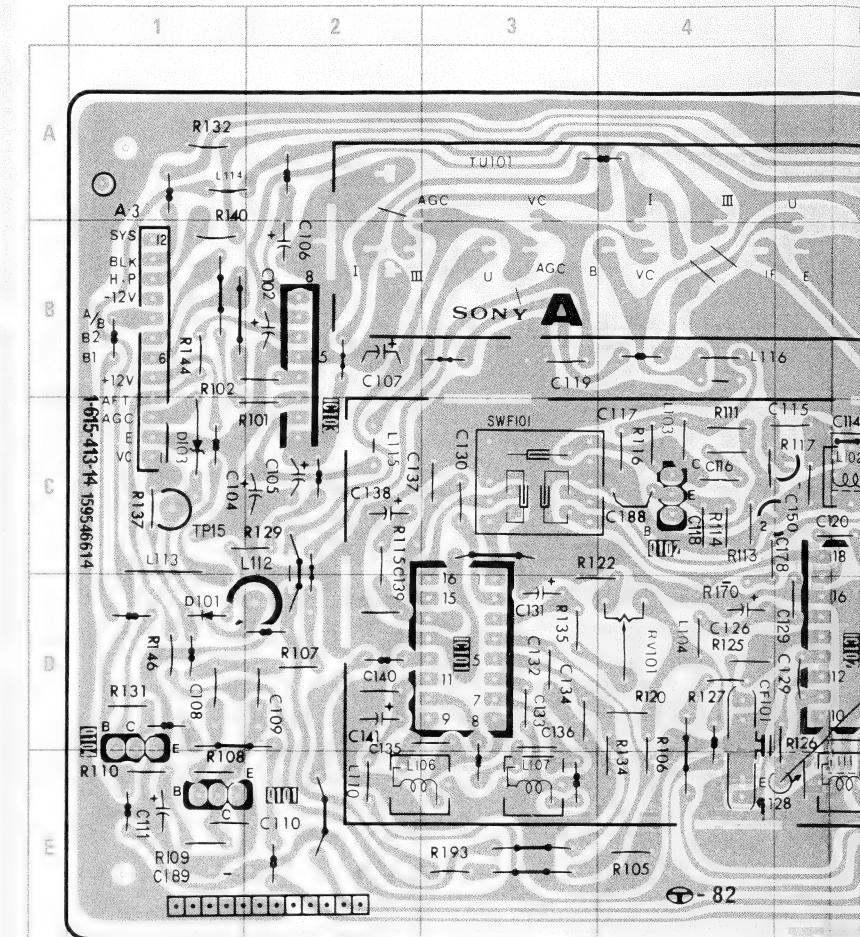


D

C

C291 F-14 C810 C-3 D218 E-11 Q201 I-13 R085 A-10 R345 C-14 R552 J-4
C301 C-15 C811 C-4 D219 E-11 Q206 H-11 R201 J-11 R347 A-12 R553 H-3

A [BAND SW, QUASI, ID,]
[SIF, VIF, AFT, MATRIX]



TU. AGC ADJUSTMENT

RV101 = D-4

1. Tune in an off-air signal.
2. Adjust RV101 so that snow noise and cross-modulation disappear from the picture.

SEPARATION ADJUSTMENT

RV151 = D-8

1. Receive a stereo signal (L-CH 1 kHz, R-CH 400 Hz).
2. Confirm the stereo indicator.
3. Confirm the output 1 kHz signal at pin (9) of IC152.
4. Adjust RV151 so that minimum 1 kHz signal at pin (10) of IC152.

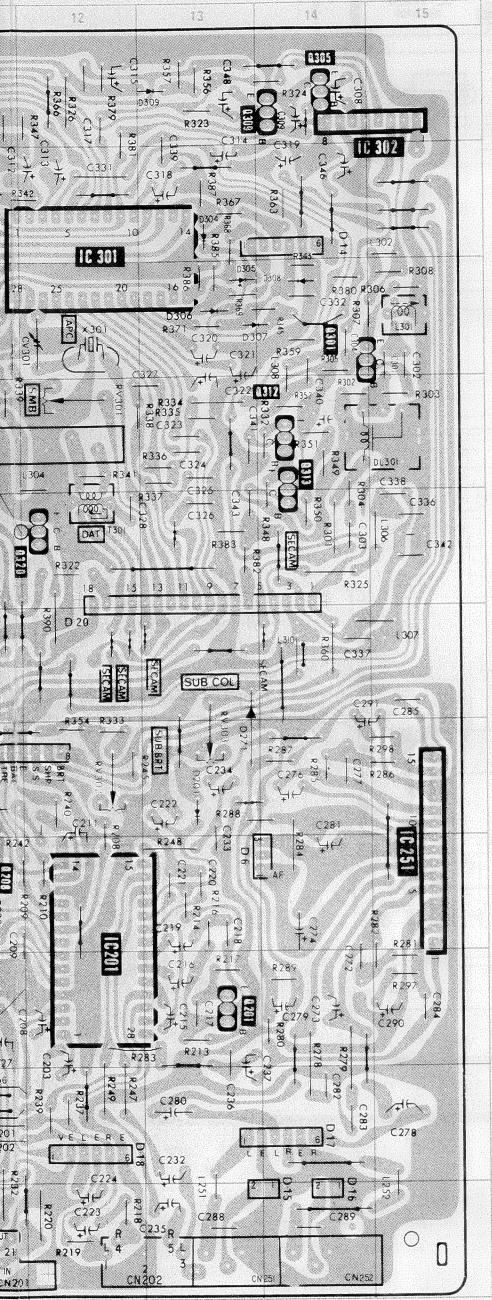
SIF ADJUSTMENT

L105 = E-5

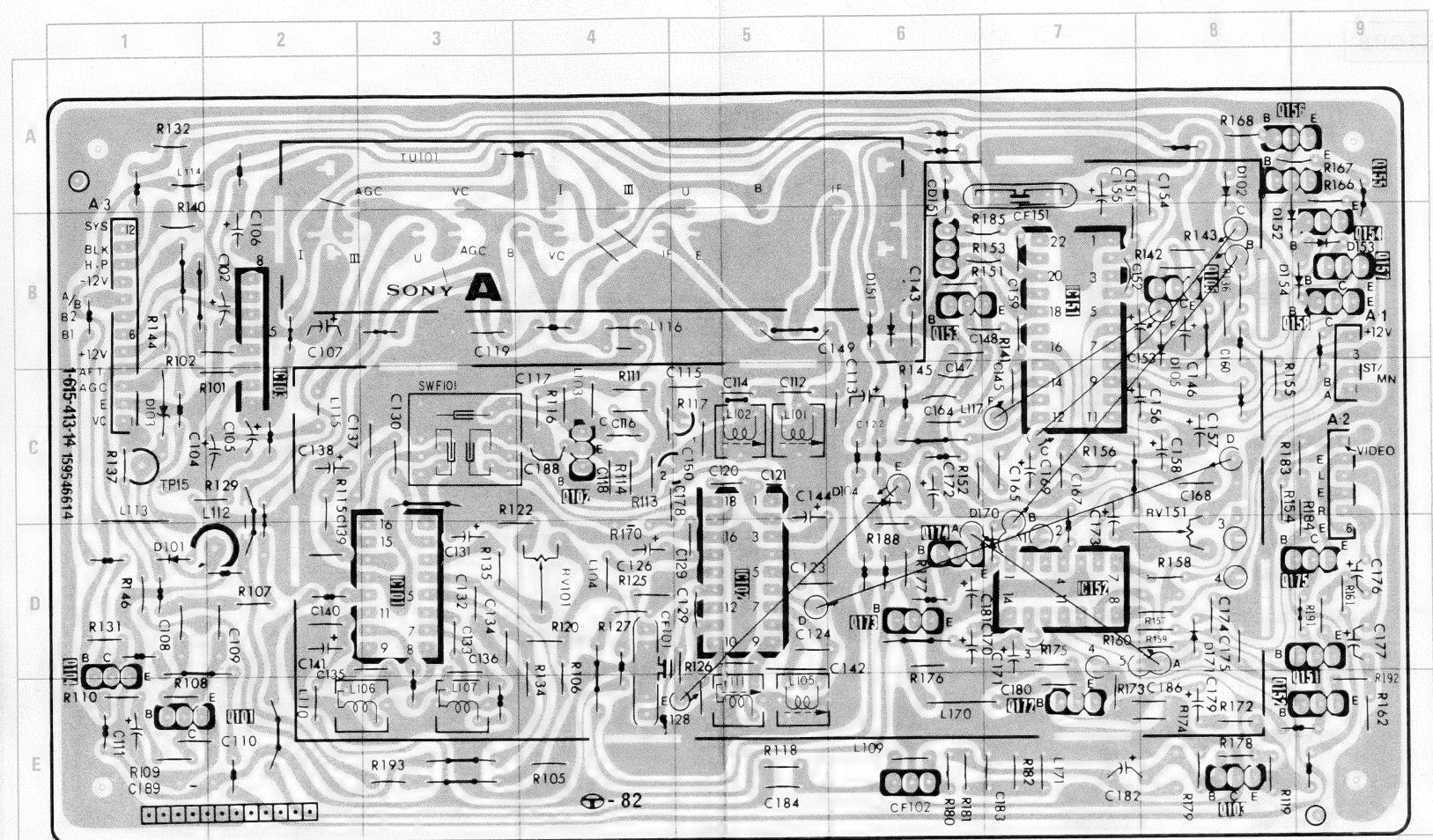
1. Tune in an off-air signal.
2. Adjust L105 for maximum clear-sound.

A

CN	C-7	C-2	B-7
A1	B-9	L112	R141
A2	C-9	L113	R142
A3	A-1	L114	R143
		L115	R144
		C-2	B-2
		L116	R145
		B-4	C-6
		L117	R146
		C-6	D-1



A [BAND SW, QUASI, ID,
SIE, VIE, AFT, MATRIX]



TU. AGC ADJUSTMENT

1. Tune in an off-air signal.
2. Adjust RV101 so that snow noise and cross modulation disappear from the picture.

SEPARATION ADJUSTMENT

1. Receive a stereo signal (L-CH 1 kHz, R-CH 400 Hz).
2. Confirm the stereo indicator.
3. Confirm the output 1 kHz signal at pin ⑨ of IC152.
4. Adjust RV151 so that minimum 1 kHz signal at pin ⑩ of IC152.

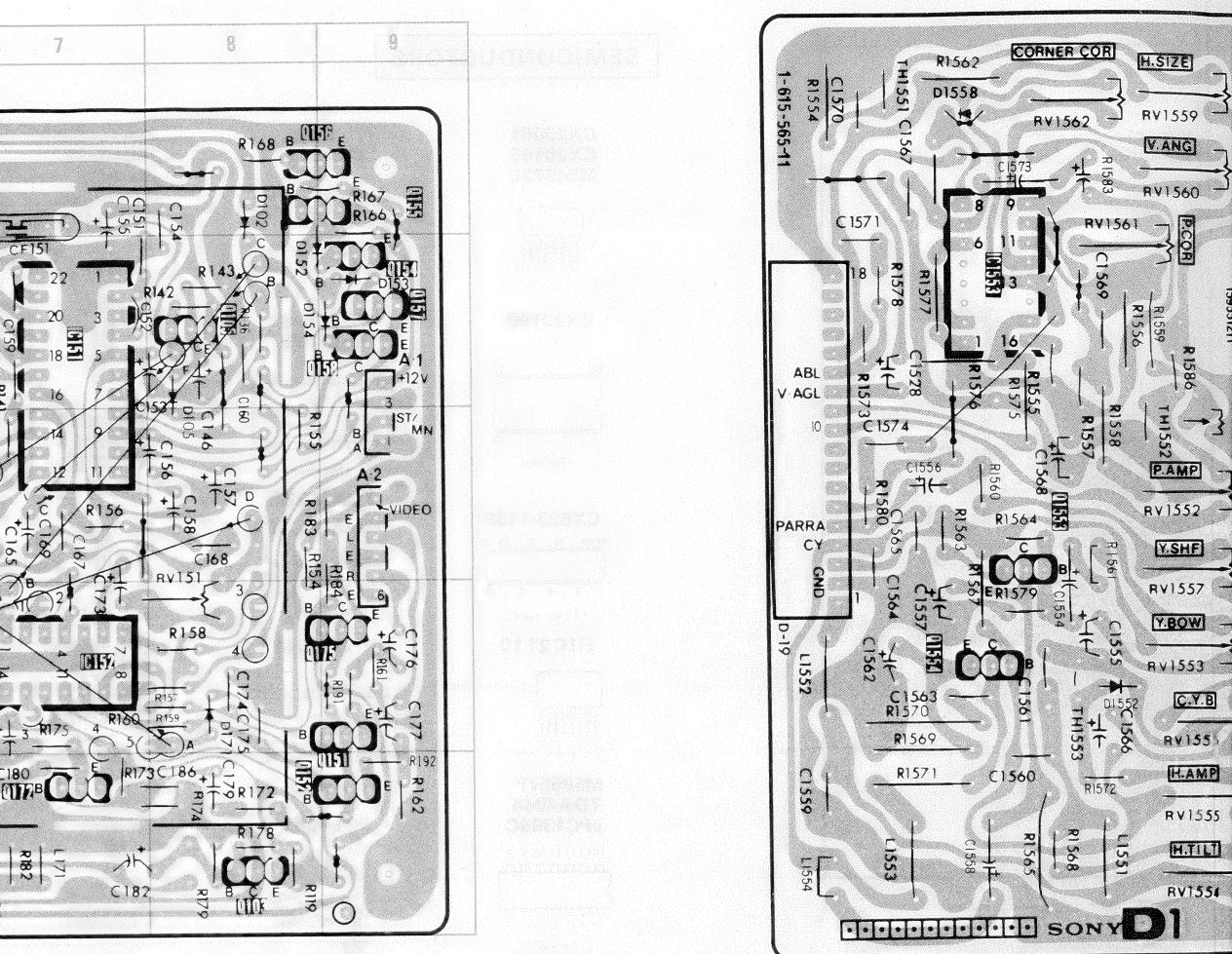
SIF ADJUSTMENT

1. *Tune in an off-air signal.*
2. *Adjust L105 for maximum clear-sound.*

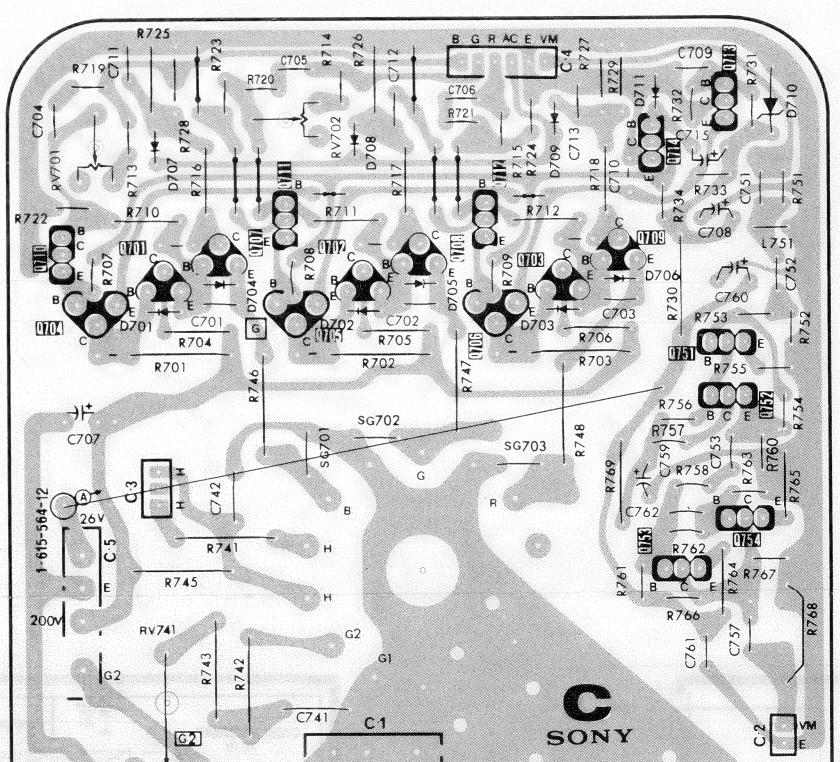
A

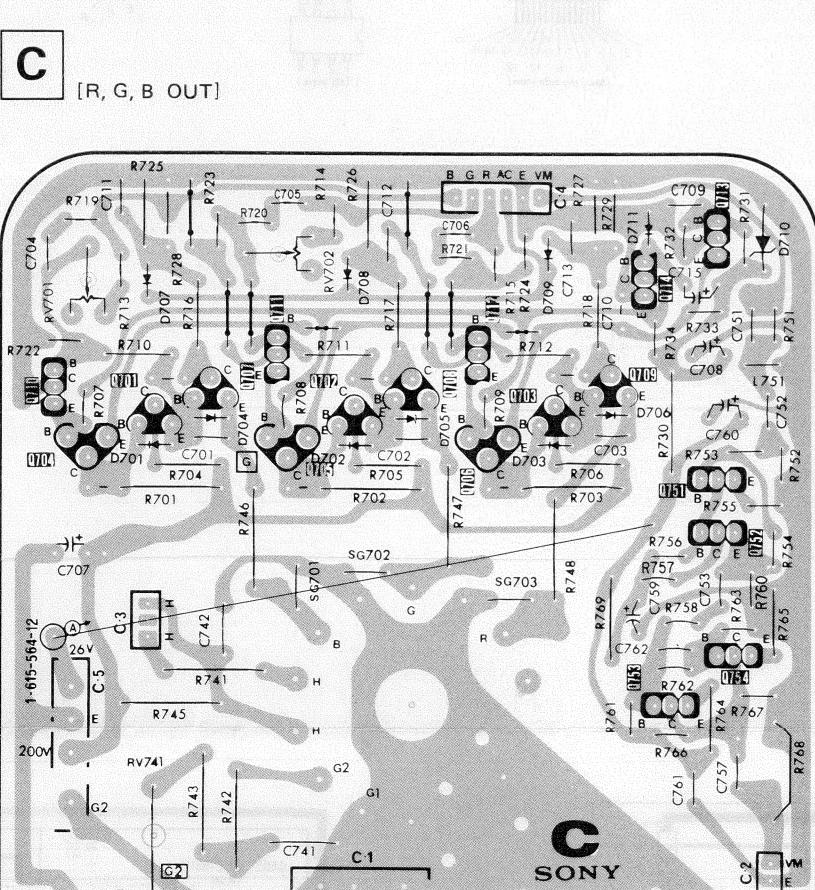
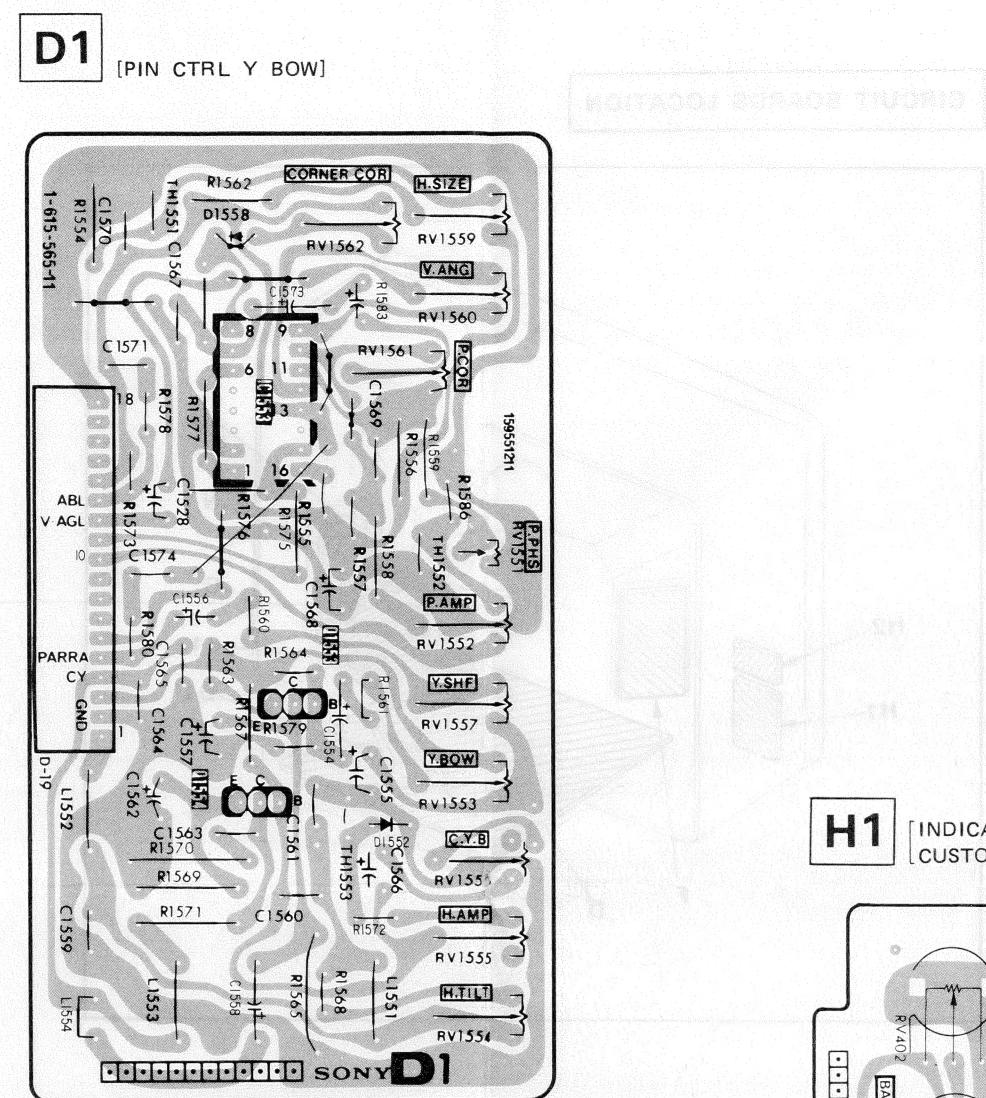
CN	C169	C-7	L112	C-2	R141	B-7	
A1	B-9	C170	D-7	L113	C-1	R142	B-8
A2	C-9	C171	D-7	L114	A-1	R143	B-8
A3	A-1	C172	C-6	L115	C-2	R144	B-2
		C173	D-7	L116	B-4	R145	C-6
		C174	D-8	L117	C-6	R146	D-1
		C175	D-8	L170	E-6	R151	B-7
C		C176	D-9	L171	F-7	R152	C-6

D1 [PIN CTRL Y BOW]

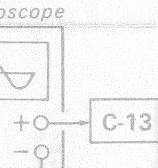


C [P, C, P, OUT]





- Set the picture control at Norm, COLOR control at minimum and BRIGHTNESS control to Mechanical center.
- Connect an Oscilloscope at pin 17 of IC301.
- Adjust RV303 so that same level as shown.

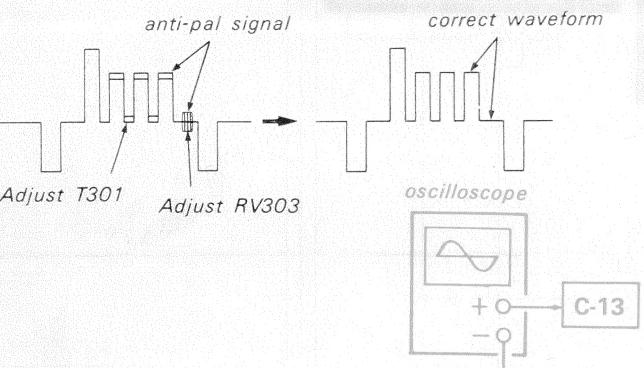


APC ADJUSTMENT **CV301 = C-12**

- Receive a color bar signal.
- Each controls at normal.
- Short circuit between pin 2 and pin 3 of IC301 with a jumper.
- Connect Resistor (100 kΩ/1/4W) between pin 24 and pin 25.
- Adjust CV301 to obtain the stable color picture.
- Disconnect the Resistor and jumper.

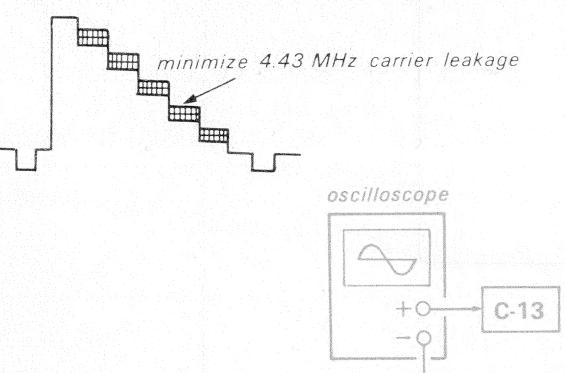
1H DL ADJUSTMENT **T301 = E-12, RV301 = D-12**

- Receive a color bar signal.
- Set the picture control at Norm and color control at minimum.
- Connect an Oscilloscope at pin 17 of IC301.
- Get tracking with both T301 and RV301 as shown.

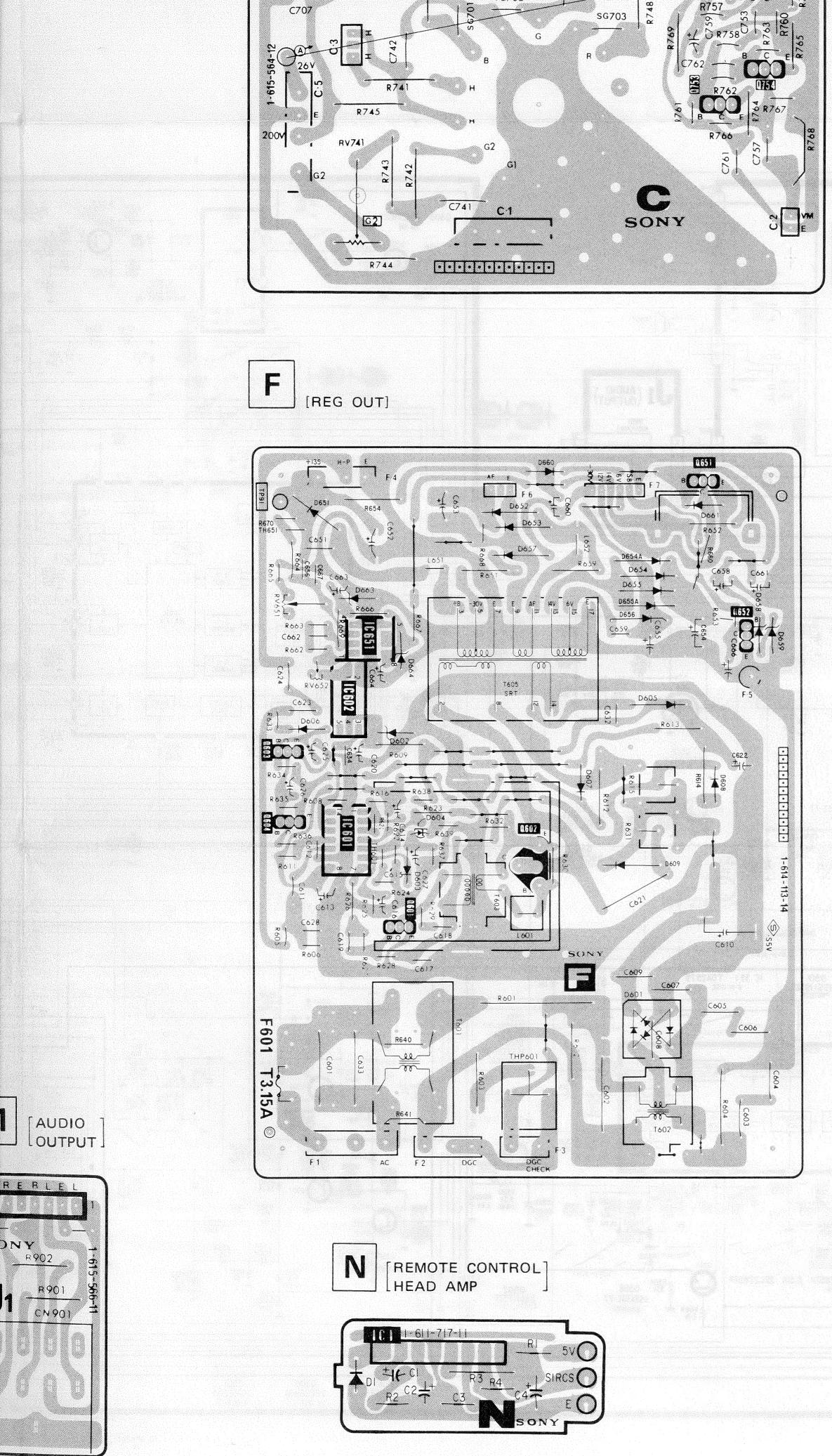


4.43 MHz TRAP ADJUSTMENT **L301 = C-15**

- Receive a color-bar signal.
- Connect an Oscilloscope at pin 17 of IC301.
- Set the picture control at norm, color control at minimum and BRIGHTNESS control to mechanical center.
- Adjust L301 for minimum 4.43 MHz component.



D	
C	C291 F-14 C301 C-15 C302 C-15 C303 E-14 C304 C-14 C305 D-9 C306 C-8 C307 C-8 C308 D-9 C309 B-5 C310 B-4 C001 E-6 C002 A-9 C003 A-8 C004 D-9 C005 D-9 C006 C-8 C007 C-8 C008 D-9 C011 B-6 C012 B-9 C015 B-5 C016 D-6 C017 A-5 C017A B-6 C018 A-5 C019 C-8 C020 A-8 C021 E-9 C026 E-10 C080 A-9 C201 K-9 C202 J-10 C203 J-12 C204 K-9 C205 B-4 C206 J-9 C207 J-10 C208 I-12 C209 H-11 C210 I-11 C211 G-12 C212 D-10 C213 J-10 C214 K-10 C215 I-13 C216 I-13 C217 I-13 C218 H-13 C219 H-13 C220 H-13 C221 H-13 C222 G-13 C223 K-12 C224 K-12 C225 I-11 C226 I-11 C227 I-11 C228 J-11 C229 H-10 C230 G-10 C231 H-11 C232 J-13 C233 H-13 C234 G-13 C235 K-13 C236 J-13 C237 J-14 C238 C-12 C239 C-11 C240 B-11 C241 J-10 C243 H-10 C272 I-14 C273 I-14 C274 H-14 C276 G-14 C277 G-14 C278 J-15 C279 I-14 C280 J-13 C281 H-14 C282 J-14 C283 J-14 C284 I-15 C285 F-15 C288 K-13 C289 K-14 C290 I-15 C301 F-14 C302 C-15 C303 E-14 C304 C-14 C305 A-14 C306 C-14 C307 C-13 C308 C-14 C309 A-13 C310 C-10 C311 A-10 C314 A-13 C315 A-12 C316 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